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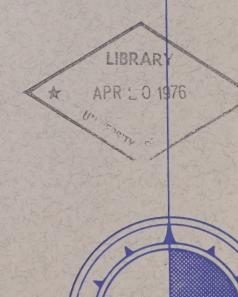
CAI EP 321 -75R07(4)

Ranada Marine Sources Directorate

Government Publications

THE HOWE SOUND CURRENT METERING PROGRAM,
VOLUME III, PART 1 – DATA REPORT, STN. HS-5

by W.H. Bell



INSTITUTE OF OCEAN SCIENCES, PATRICIA BAY

Victoria, B.C.

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PACIFIC MARINE SCIENCE REPORT 75-7

THE HOWE SOUND CURRENT METERING PROGRAM,

VOLUME III, PART 1 - DATA REPORT, STN. HS-5

by

W.H. Bell

INSTITUTE OF OCEAN SCIENCES, PATRICIA BAY Victoria, B.C.

June, 1975

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#### ABSTRACT

Current meter data, and some temperature and salinity data, obtained for several depths at three locations in Howe Sound are presented in three volumes. The presentations are chiefly statistical in nature. They extend over a period slightly greater than two years, beginning in late 1971.

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#### INTRODUCTION

In 1971, interest was expressed in examining the oceanographic characteristics of Howe Sound in some detail. The Federal Government had announced that a large rail terminal and deep-water ship docking facility would be established at the head of Howe Sound. This facility would be used to supply much of British Columbia's interior population and industry, and to ship out export materials. As a result, a considerable increase in marine traffic was anticipated, increasing the need for information on tidal currents and other water movements, and increasing the possibilities for contamination of the Sound.

There were other reasons for the interest as well. Several industries having a high pollution potential were already in operation in Howe Sound and, with the construction of the proposed shipping facility, more were likely to be established. Future population expansion in the Lower Mainland area might be met to some extent by residential development in some areas of Howe Sound, with attendant environmental problems such as waste disposal and increased silt loads. The development of a transport or dispersion model for water-quality management in Howe Sound was proposed, which would require an oceanographic data input. In addition, various biological, chemical and ecological studies were underway or proposed for the Sound, most of which required some knowledge of the oceanographic features of the area.

Only a limited amount of data was available from previous studies, principally those of Waldichuk et al (1968) who conducted periodic cruises to the vicinity of a number of effluent-producing industries. The current measurements were sparse, and were obtained using surface drogues and Ekman current meters deployed over the side of a ship. The Institute of Oceanography at the University of British Columbia had also obtained a small amount of data in Howe Sound.

The measurement program subsequently undertaken consisted of two hydrographic cruises and a series of moored-buoy installations. The cruise data has been previously reported (Bell, 1974). The purpose of the present report is to present the data obtained by instruments suspended beneath the buoys, principally current speed and direction, accompanied much of the time by temperature values and occasionally by salinities.

#### OBSERVATIONAL PROCEDURES

The current-metering program in Howe Sound, using taut-line moored buoys, originally anticipated that six stations would be occupied for a period of up to a year each. At every station, several self-recording current meters would be suspended at various depths below the surface. An anemometer would be mounted on each buoy for wind measurements. As it developed, there were only sufficient resources available to maintain two stations at a time, and only three stations were occupied. Also, there was only one anemometer available for a short period of time and it malfunctioned.

The program commenced in November, 1971 with a buoy installation at Station HS-4 (Fig. 1). Current meters were placed at depths of 3, 10, 30, and 130 metres from the surface. The water depth was 145 metres. Measurements at

this station continued through to November, 1972. A second installation was made at Station HS-3, commencing in February, 1972 and continuing through to November of that year. In this case, current meters were located at depths of 3, 10, 30 and 235 metres, with a water depth of about 250 metres. The final station to be monitored was HS-5. This station is a short distance inside the sill in Howe Sound (Fig. 2). Here, sufficient current meters were being used so that it was decided to install two separate arrays about 250 metres apart, thus reducing the loss if a buoy should chance to be snagged by the tow line of one of the many tug boats traversing the area. The first buoy was installed at the end of November, 1972 and the second in January, 1973. Current meters were located at up to eight different depths for varying periods of time. The arrays were finally removed in February, 1974. Generally speaking, the instruments were deployed for about six weeks at a time, after which they were recovered for replacement of batteries and magnetic recording tape. The principal vessel used in this work was F.R.B. A.P. KNIGHT.

Two types of current meters were employed in the program. The Geodyne Model A-850 was used in the near-surface position (about 3 metres depth) because it has a small directional vane enclosed within a cage. Thus, it was unlikely to tangle with the anchor line of the buoy in the event of turbulent surface motions. The Aanderaa Model 4 was used at all other depths. It does have a large unprotected directional fin which could cause problems if placed too close to the buoy. The manufacturer of the Geodyne meter claims a threshold velocity of 26 mm/s, a speed accuracy of 26 mm/s for speeds below 500 mm/s and a direction accuracy of ± 10 degrees. The calibration factor given for the Aanderaa meter implies a threshold velocity of 15 mm/s. direction accuracy is ± 5 degrees. The Aanderaa meter is fitted with a thermistor, providing temperatures with a resolution of about 0.02 degrees C. Some of these meters also have conductivity sensors with a resolution of 0.07 mmhos. The Geodyne meter samples in "bursts", recording 15 measurements spaced 5 seconds apart and repeating the procedure every 15 minutes. The vector average of the 15 measurements is used in subsequent processing. Aanderaa meter takes a single sample of direction for each 10 minute interval, but integrates the speed over this whole period. The two types of current meters have been described in more detail by Tabata et al (1971).

Although no wind data were obtained at the actual buoy locations, some observations are available from nearby points. The Atmospheric Environment Service of Environment Canada maintains an anemometer at the head of Howe Sound. As one might expect from the topography of the area, there appears to be a reasonable correlation between the north-south components of wind velocity measured at this location and those experienced at seaward points along the axis of the Sound (except occasionally in one or two locations where the flow of cold air down a hanging valley complicates the situation). Also, Dr. L. Giovando at the Pacific Environment Institute in West Vancouver had several anemometers deployed at various locations in Howe Sound during 1972-73. In particular, one was positioned on Pam Rock, near Station HS-3.

#### DATA PROCESSING AND PRESENTATION

The raw data tapes from the Geodyne meters had to be sent to the instrument manufacturer (E.G. & G., Waltham, Mass.) for translation to an IBM-compatible format. They returned a 9-track magnetic tape, containing the translated data, for further processing as required. The raw data tapes from the Aanderaa instruments were translated in-house, using a HP2115 minicomputer and software developed by Del Smith. Second stage processing of the translated data consisted of formatting the data for FORTRAN routines and applying appropriate calibration factors where necessary. During this stage, an acceleration criterion and an interpolation scheme were applied to speed data to smooth out any unrealistic variations or 'spikes'. These spikes arose from readings in the dead-band area of the speed potentiometer and from tape noise.

Requests received from biologists and ecologists indicated a preference for examination of the data in graphical form, such as histograms and progressive vector diagrams (PVD's), rather than in time series form. Therefore, the data are presented here in the following forms:

- (a) PVD
- (b) Frequency distribution plot for speed and direction
- (c) Frequency distribution list for speed and direction
- (d) Speed histogram
- (e) Direction histogram
- (f) Temperature histogram (when available)
- (g) Salinity histogram (when available)

The processing routines were written so that each of these presentations came directly from the computer in page size. This allowed the printer to use them directly without resorting to photographic reduction first. It was necessary to break the information contained on a data tape into two or three smaller segments to avoid cluttering the PVD's. A data length of about 3 weeks appeared optimum, so the basic segments for presentation were taken to be 2000 records for Geodyne tapes (15 min. sample interval) and 3000 records for Aanderaa tapes (10 min. interval). If the number of records left at the end of a tape was less than 1/3 of the basic number, then these records were grouped with the preceding segment. The initial segment of each data tape contained a varying number of records which were of no value because they represent samples taken after the instruments were switched on but before they were in position in the water. Such samples were included in the translation procedure for timing purposes but were omitted from subsequent processing. Thus, in the presentations, some of the initial segments have fewer than 2000 or 3000 records, and some of the final segments have more. Hourly averages were used in plotting the PVD's. The frequency distribution diagrams have a change in the scale of the speed axis for water depths of 30 m or more.

The histogram presentations occasionally have truncated peaks. This

was done to provide greater detail in the remainder of the plot. The correct height of the peak is given in the frequency column of the histogram. The resolution available in the data logging process is limited and occasionally results in quirks in the histograms. For example, the temperature resolution is about 0.02°C. Whenever the counting increment for the histogram is also 0.02°C, the result of the interaction is that not all of the increments obtain counts, some being blank or empty. A similar phenomenon occurs in some speed histograms, most notably for the increment from 77-80 mm/sec when the increment size is 4 mm/sec. The output from the Aanderaa current meter represented by the number 15 is processed and rounded off by the computer program to give 76 mm/sec. The number 16 rounds to 81 mm/sec. Thus, there is no possibility of obtaining counts for the increment in question.

Some data were lost due to instrument malfunctions, weak batteries, and water leaks. Some data were not recoverable because of a very low signal-to-noise ratio, apparently resulting from poor or improper tape degaussing techniques. Unfortunately, data analysis was lagging well behind instrument deployment, so some of these problems weren't detected immediately. The lengths of record for the station reported on in this volume, and the reasons for loss of data, are given in Figure 3 and Table I.

Because of the large amount of data involved, the results are presented in three volumes, one dealing with each station. The original data is available on request for anyone wishing to examine the time series obtained for a given period at a particular station and depth.

#### ACKNOWLEDGEMENTS

The data presented in this series of reports could not have been obtained without the expert work of J.A. Stickland and R.H. Bigham, who designed and supervised the moorings and maintained the instruments. They were ably assisted on occasion by J.H. Meikle and R. Forbes. The captain and crew of F.R.B. A.P. KNIGHT also provided willing support to the undertaking.

Some of the data processing routines were modified from programs kindly supplied by R. Johns. Much of actual mechanics of punching cards and feeding them to the computer was done by C. Goodman.

#### REFERENCES

- Bell, W.H. 1974. Oceanographic Observations in Howe Sound 1972. Pac. Mar. Sci. Rept. 74-7, Marine Sciences Directorate, Victoria.
- Tabata, S., J.A. Stickland and B.R. de Lange Boom. 1971. The Program of Current Velocity and Water Temperature Observations from Moored Instruments in the Strait of Georgia 1968-1970 and Examples of Records Obtained. Tech. Rept. No. 253, Fish. Res. Bd. Can., Nanaimo.
- Waldichuk, M., J.R. Markert and J.H. Meikle. 1968. Fraser River Estuary, Burrard Inlet, Howe Sound and Malaspina Strait Physical and Chemical Oceanographic Data, 1957-1966, Volume II, Sept. 1962 to July 1966. M.S. Rept. Series No. 939, Fish. Res. Bd. Can., Nanaimo.

TABLE I

DATA ACQUISITION AND PROCESSING HISTORY FOR CURRENT METERS AT STN. HS-5

NOTES	d,k £,g,k	b, k	Ъ, к	ъ, к
CANSLATION FILE NO.	20 57 21 58	36 11 22 12 23 59 60	21 13 24 14 25 61	20 1 3
STAGE 2 TRANSLATION TAPE NO. FILE NO.	RE0158 RE0158 RE0158	RB0411 RE0158 RE0158 RE0158 RE0158	RB0411 RE0158 RE0158 RE0158 RE0158	RB0411 RE0158 RE0158
ANSLATION FILE NO.	11 3	15 5 7 7 10 11 12	16 13 15 16 17 19	18 20 21 22 23
STAGE 1 TRANSLATION TAPE NO. FILE NO.	RE0322 RA0279 RE0322	RBO410 RE0322 RE0322 RE0322 RE0322 RE0322	RB0410 RE0322 RE0322 RE0322 RE0322 RE0322	RB0410 RE0322 RE0322 RE0322
DATA TAPE NO.	236/4 102H/1 97/18 333/6 335/7	239/7 640/1 334/10 210/10 637/1 333/7 638/1	241/2 640/2 334/11 210/11 637/2 333/8 638/2 639/2	239/8 738/1 210/12 739/1 637/3
NO. OF RECORDS	0 7897 7898 7882 7884	5080 7371 7221 7371 7222 6939 7228	4960 7046 7480 7046 7338 7338 7338	4306 6340 6043 6341 5897
ОЕРТН (M)	3 7 15 30 150	3 5 7 10 15 20 30 150	3 5 7 10 15 20 30 150	150
START DAY (PST)	24/11/72	15/01/73	07/03/73	24/04/73

TABLE I (CONT'D.)

NOTES																													
TRANSLATION	FILE NO.	4	63	64	22	Ŋ	9	7	65	99		α	, r	15	တ	67	89		10	16	17	69	70		54	73	56	74	75
STAGE 2 TI	TAPE NO.	RE0158	RE0158	RE0158	RB0411	RE0158	RE0158	RE0158	RE0158	RE0158		מזוטשמ		RE0158	RE0158	RE0158	RE0158		RE0158	RE0158	RE0158	RE0158	RE0158		RE0158	RE0158	RE0158	RE0158	RE0158
TRANSLATION	FILE NO.	24	25	26	17	27	. 28	29	30	31		32.	1 (	33	34	35	36		37	38	39	40	41		00	0	10	13	14
STAGE 1 TR	TAPE NO.	RE0322	RE0322	RE0322	RB0410	RE0322	RE0322	RE0322	RE0322	RE0322		BE0322		RE0322	RE0322	RE0322	RE0322		RE0322	RE0322	RE0322	RE0322	RE0322		RA0279	RA0279	RA0279	RA0279	RA0279
DATA	TAPE NO.	640/3	638/3	639/3	241/3	637/4	739/2	738/2	638/4	639/4	07 066	637/5	0/00	738/3	739/3	638/5	639/5	239/10	739/4	637/6	738/4	638/6	9/689	239/11	739/5	637/7	738/5	638/7	639/7
NO. OF	RECORDS	6185	5899	5897	7000	9813	9305	9671	9943	9941		5430	) () 	5429	5429	5177	5177		6917	6917	6917	6922	6922		8735	8763	8723	8895	8895
DEPTH	(W)	20	30	150	m	ហ	10	20	30	150	C	ן ני	) (	10	20	30	150	m	<sub>1</sub>	10	20	30	150	۳	Ŋ	10	20	30	150
START	DAY (PST)				06/06/73						27/00/01	61/00/67						20/09/73						07/11/73					

# TABLE I (CONT'D.)

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02/

שעע	OEFTH (M)	DECOPIA	DATA	STAGE 1 TI	STAGE I TRANSLATION	STAGE 2 T	STAGE 2 TRANSLATION	NOTES
PST)	(12)		· ON THE	TAPE NO.	FILE NO.	TAPE NO.	TAPE NO. FILE NO.	
/01/74	m		236/5					
	. 2	8924	6/609	RA0279	12	RE0158	55	
	10	8925	507/9	RA0279	m	RE0158	50	
	20	8924	506/7	RA0279	2	RE0158	51	
	30	8671	334/14	RA0279	7	RE0158	53	
	150	8916	333/11	RA0279	9	RE0158	52	

## NOTES:

Instrument failure - water leak

Instrument failure - encoder or other data logger fault a. b.

Instrument failure - weak battery

Instrument failure - reason unknown

Rotor failure or fault in speed recording channel

Compass or vane failure or fault in direction channel

Thermistor failure or fault in temperature channel

Conductivity sensor failure or fault in conductivity channel

Unreliable or "noisy" data - reason unknown

Unreliable or "noisy" data - tape degaussing problem

Data irretrievable

Data retrievable with great difficulty 

Data retrievable with some difficulty

Data retrievable with little difficulty

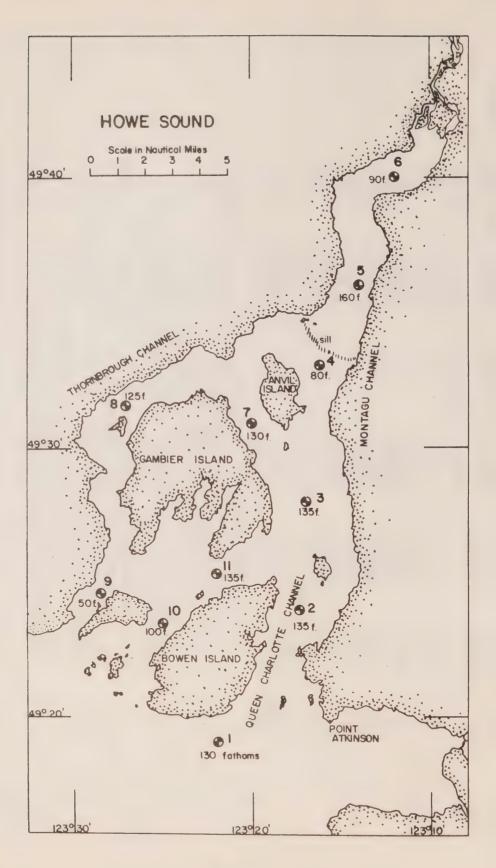
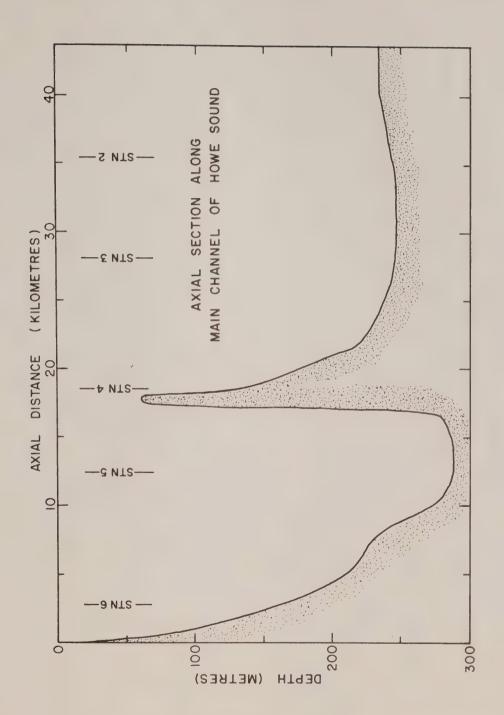


Figure 1





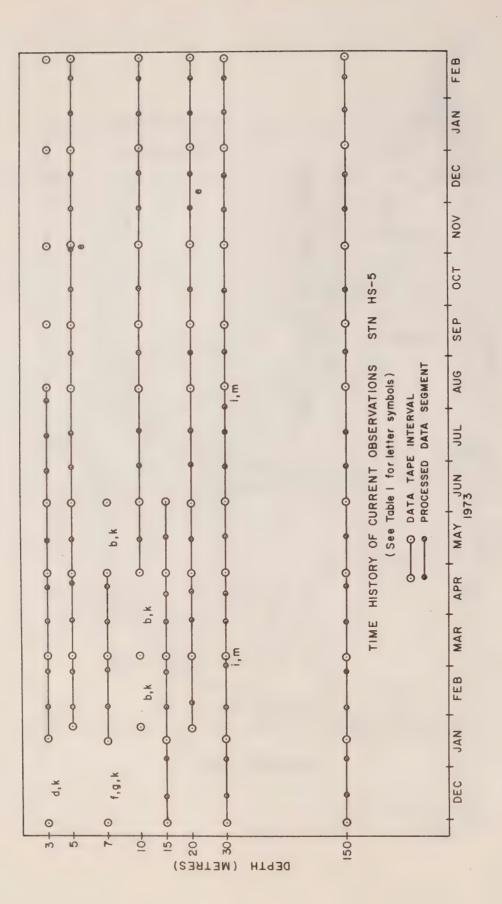
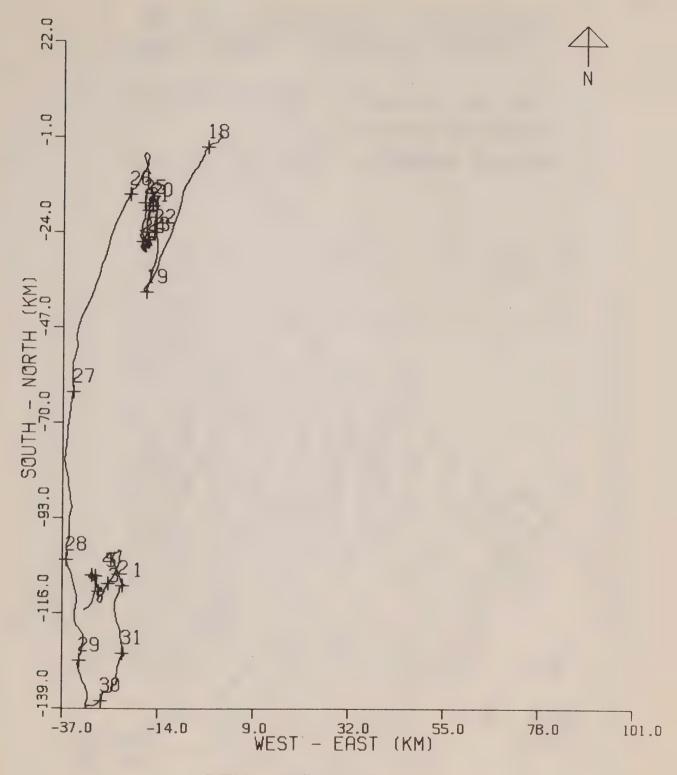


Figure 3

DATA FOR 3-METRE DEPTH





STN. NO. HS-5S

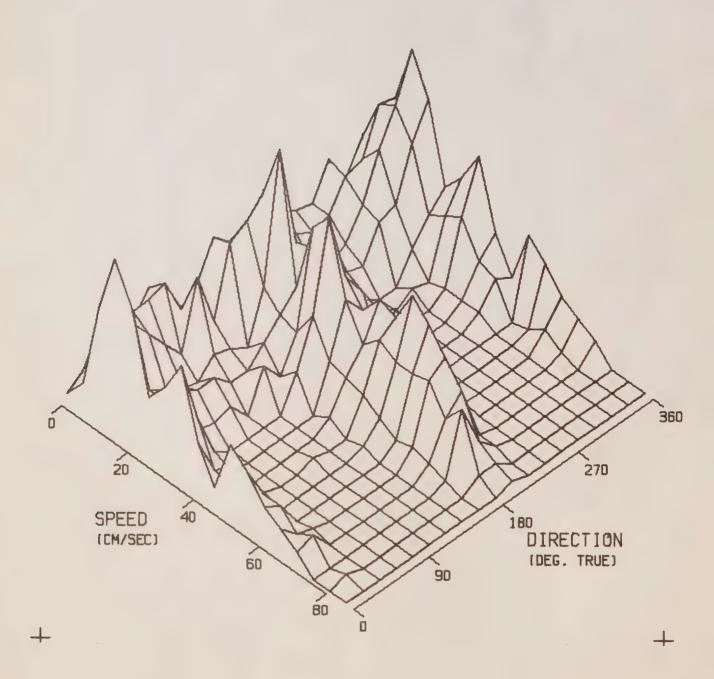
DEPTH 3 M.

STARTING DATE: 17/ 1/73 ENDING DATE: 5/ 2/73

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## FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5S DEPTH 3 M. STARTING DATE: 17/1/73 NO. OF SAMPLES = 1804



STN. NO. HS-5S DEPTH 3 M.

STARTING DATE: 17/ 1/73 SAMPLE INTERVAL = 15 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

#### SPEFD

		080								720			
n.f.n	10	10	TO	10	Tn	Th	TO	TO	TO	TO	TO	TO	
DIR	079	159	239	519	399	479	554	639	719	799	879	959	
0-14	012	040	031	011	015	006	01/4	013	008	0.01		001	152
15= 29		019		010					001			001	66
30= 44	008	014	016	004		001			O O T	.,01		001	48
45= 59	012	022	004	008	0,000	V (, ', ',	0.0.1	0.0.1					46
60- 74	012	014	008	003	0.01								38
75= 89	015	014	006		001								42
90-104	011	023	015	002		0.01							52
105=119	011	012	005	006									34
120-134	005	015	008	007									35
135=149	011	025	011		006	200	001						65
150=164	011	050	021	006	013	007	006	001	500	001			88
165=179	007	022	030	018	017	016	010	008	009	002			139
180-194	0.05	026	028	027	044	019	026	021	055	016	001		235
195=209	013	017	020	025	018	015	017	020	013	003			161
210-224	006	007	017	019	017	009	013	011	003	002			104
225=239	010	011	008	008	007	010	003						57
240-254	006	010	007	004	003	002	001						33
255=269	009	009	003	001	001								23
270-284	012	009	003	002	001								27
285-299	011	012	010		001								34
300-314	012	017	006	003									3.8
315+329	013	019	050	002	003	003							60
330=344	012	026	022	013	008	005		001					87
345#359	008	0.29	031	016	027	012	007	006	004				140
	245								62		1		1804
		432		210		110		86		26		5	

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 0

HISTOGRAM OF SPEED

HOWE SOUND HS-58 DEPTH 3M. START DATE 17/01/73

```
200
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                           80
                                  120 160
     FREGINCY
MEDTAN
     NO. PCT
(MM/S)
  13
      38
          2
  39
      82
          5
             *******
      118
             *********
  65
             **********
      135
  91
             *********
 117
      151
             **********
 143
      138
          8
     134
          7
             ------
 169
             *******
 195
      102
             ********
     100
 221
      79
 247
          4
      53
 273
          3
             *********
      70
             *******
 299
      83
          5
             *************
 325
       73
            *******
 351
          4
 377
      48
          3
             *******
       43
 403
          2
             *******
 429
      36
       29
 455
       34
          2
 481
 507
       35
          2
 533
       33
 559
       36
             ******
 585
       31
             *****
 611
       23
          1
 637
       21
          1
 663
       24
          1
 689
       16
          1
 715
       15
          1
 741
             ***
       1.1
          1
 767
       5
          0
 793
       5
          0
 819
       0
           0
 845
        1
           0
 871
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 923
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 1027
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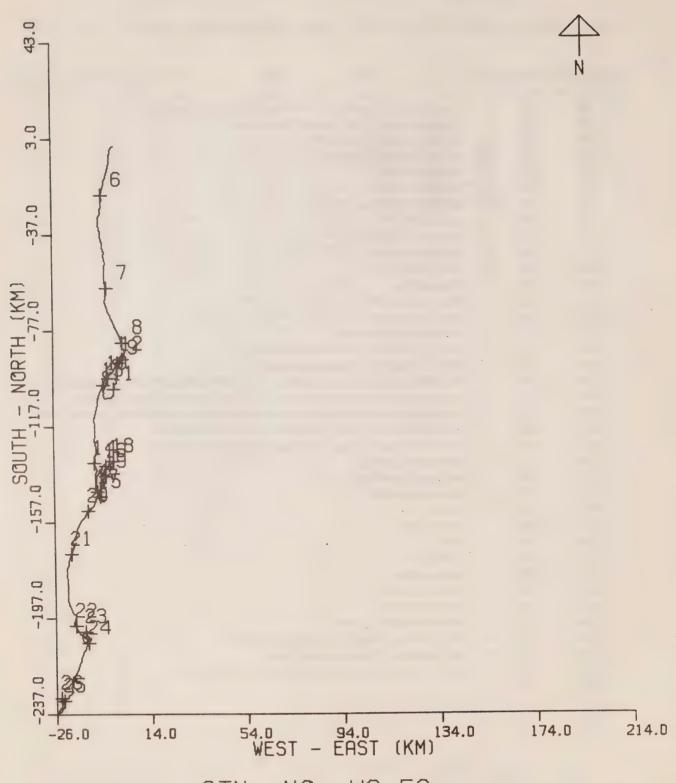
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#### HISTOGRAM OF DIRECTION

### HOWE SOUND HS-58 DEPTH 3M' START DATE 17/01/73

```
MEDIAN
     FREGINCY
                  30
                                 90
                                       120
                                               150
(DEG.T) NO. PCT .
  5
     102
  15
     73
          4 ************
     43
  25
          2 *********
  35
     43 2 *********
  45
      24
  55
      27
         1
  65
      32
          5
           ******
  75
      20
         1
  85
      37
         2 *********
 95
      85
          2
      29
 105
          2
 115
     2.0
 125
     26
         1
 135
     31
          2
 145
      43
          2
            ********
 155
     7.0
         4 ***********
     62
 165
          3
 175
     136
            ***********
 185
     122
          7 ********************
 195
     137
 205
      96
          5 ***************
 215
      90
          5
            *********
 225
     32
          ********
 235
      39
            ********
 245
      31
 255
     1.1
 265
      55
         1
            ****
 275
      9
          0 ***
 285
      21
         1 *****
 295
     23
30
      23
         1
 305
 315
      25
         1 *****
      43
 325
           ********
 335
     75
 345
     61
          3 ***********
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NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 1804
SAMPLE INTERVAL = 15 MINUTES



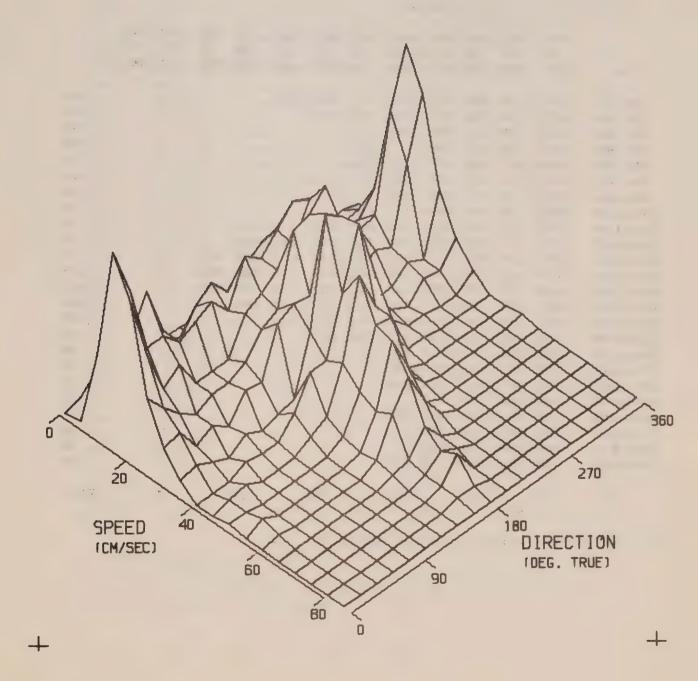
STN. NO. HS-5S DEPTH 3 M.

STARTING DATE: 5/ 2/73 ENDING DATE: 26/ 2/73

+

## FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5S DEPTH 3 M. STARTING DATE: 5/ 2/73
NO. OF SAMPLES = 2000



STN. NO. HS=58 DEPTH 3 M.

STARTING DATE: 5/ 2/73
SAMPLE INTERVAL = 15 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

#### SPEED

nir	000 TO 079	080 10 159	160 TO 239	240 TO 319	320 TO 399	400 TO 479	480 TO 559	560 10 639	640 TO 719	720 TO 799	800 TO 879	880 TO 959	
0= 14 15= 29 30= 44 45= 59 60= 74 75= 89 90=104 105=119 120=134 135=149 150=164 165=179 180=194 195=209 210=224 225=239 240=254 255=269 270=284 285=299 300=314 315=329	004 009 005 008 003 006 003 003 004 005 009 007 009 001 1004 002 003	039 026 020 034 020 018 019 016 021 029 019 026 021 015 008 009 006	040 030 016 012 019 012 011 009 014 022 018 018 013 013 013 011 012	015 013 007 004 005 005 008 006 009 020 015 022 039 043 010 005 005 005 005	004 002 001 002 003 009 010 022 025 048 042 014 011 001	001 003 001 001 001 003 009 012 032 043 006	002 001 001 001 010 020 033 019 007	002 003 007 018 018 006	001	008			104 84 50 58 44 41 46 38 60 89 111 175 263 201 185 102 59 45 31 17 24
330-344 345-359	003	025	017	003	001								4A 93
	121	505	464	323	242	168	96	56	15	10	. 0	0	2000

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 0

#### HISTOGRAM OF SPEED

HOWE SOUND HS-58 DEPTH 3M. START DATE 05/02/73

```
MEDTAN
      FREDINCY
                     40
                             80
                                    120
                                            460
(MM/S)
      NO. PCT
  13
      15
           1
  39
       41
           2
              *******
  65
       64
           3
              ******
  91
      111
              ********
 117
      177
           9
 143
      196
          10
              ************
 169
      194
              **********************************
          1.0
 195
      142
           7
              *********
 221
      127
           6
              *********
 247
      104
           5
 273
      124
           6
              *********
 299
       98
           5
              ********
 325
       86
              **********
 351
       85
           4
              *******
 377
       71
 403
       63
           3
              *******
 429
       58
           3
              *********
 455
       46
              ********
 481
       4B
              *******
 507
       28
 533
       28
 559
       23
 585
       24
       19
 611
           1
              ****
 637
        7
           n
        5
 663
           Ö
 689
        4
 715
        4
           0
 741
        5
           0
 767
        3
           0
 793
        Ö
           0
 819
           0
 845
        0
 871
 897
        0
 923
        0
 949
        0
           0
 975
        0
1001
1027
        0
```

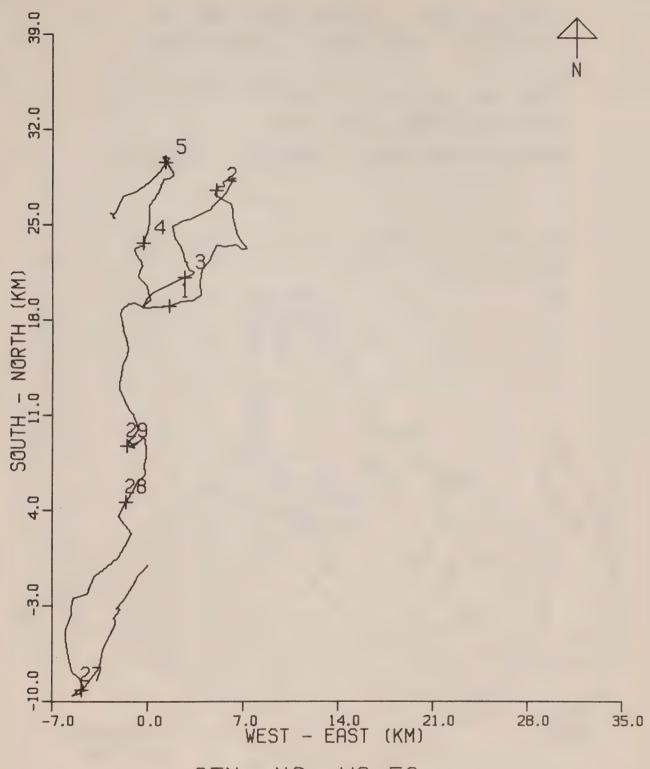
NO. OF SAMPLES OVER 1040 = 0 NO. OF SAMPLES UNDER 0 = 0 TOTAL NO. OF OBSERVATIONS = 2000 SAMPLE INTERVAL = 15 MINUTES

#### HISTOGRAM OF DIRECTION

## HOWE SOUND HS-58 DEPTH 3M' START DATE 05/02/73

```
160
                                                  200
                           80
                                  120
MEDIAN FREQUNCY
                   40
(DEG.T) NO. PCT
      7.0
  15
      75
  25
      43
  35
      42
  45
      28
      38
  55
            *****
      40
  65
      17
  75
  85
      33
          2 *******
  95
      21
      33
 105
            ****
    25
 115
          2
 125
      44
            *****
 135
      37
      68
            *******
 145
      80
            **********
 155
      88
 165
            ************
      161
 175
            **********
 185
     131
            ***********
      166
 195
 205
      124
            **********
          A ********************
 215
      160
 225
     74
            ***********
 235
      53
          3
 245
      48
       27
 255
          1
      35
          2
            *****
 265
      19
 275
 285
      11
 295
      12
             ***
       20
 315
 315
      13
 325
      23
          1
 335
       36
      43
 345
 355
       62
          3
            ******
 365
       0
          0
 375
       0
           0
 385
        0
           0
 395
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF ORSERVATIONS = 2000
SAMPLE INTERVAL = 15 MINUTES



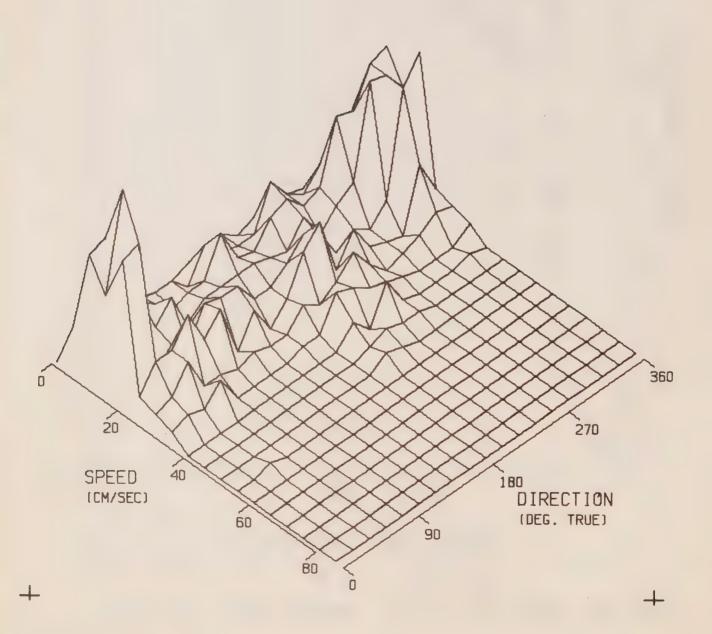
STN. NO. HS-5S

DEPTH 3 M.

STARTING DATE: 26/ 2/73 ENDING DATE: 5/ 3/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5S DEPTH 3 M. STARTING DATE: 26/ 2/73
NO. OF SAMPLES = 798



STN. NO. HS-5S DEPTH 3 M.

STARTING DATE:26/ 2/73 SAMPLE INTERVAL = 15 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

#### SPEED

	000	080 TD		240 TO	320 TO	400 TO		560	640	720	800	880	
DIR	079			319		479	70 559	T0 639	719	T0	879	70 959	
					and a	~ ( )		0.37	117	, , ,	017	707	
0-14	010	035	037	003	003							001	89
15- 29	0.05	027	028	009	0.01								70
30- 44	0.06	017	009	009	002								43
45= 59	009	011	004	0.08	004		0.01						37
60- 74	007	007	011	0.05	001								31
75= 89	005	007	005	006									- 50
90-104	004	005	007	0.05	001								55
105=119	0.05	0.05	011	003									24
120-134	0.01	0.05	004										10
135=149	001	008	0.08	003									20
150-164	006	0.08	0.05	001	001								18
165-179	003	008	0.03	002									16
180-194	007	005	006	007	005	0.01	001						32
195-209	001	005	0.05	007	003	200	0.01						24
210=224		007	006	008	004	500	0.01						28
225=239	007	004	012	011	003	200							39
240-254	006	011	006	003	006	0.01							33
255=269	004	005	002	005	001	200							19
270-284	004	006	004	500									16
285#299	006	011	001		001								19
300-314	005	012	002	002									21
315=329	003	027	012	002									44
330-344	010	024	150	005									60
345=359	010	023	019	007	200								61
													1,7 1
	122		225		38		4		0		0		796
		283		113		1.0		0		0		1	

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 2

#### HISTOGRAM OF SPEED

### HOWE SOUND HS-58 DEPTH 3M. START DATE 26/02/73

```
FREGINCY
                            40
                                    60
                                             80 .
                                                    100
MEDIAN
                    20
(MM/S)
      NO. PCT .
                                     .
   8
       5
           0
  24
       17
           2
             *****
       19
           2 ********
  40
  56
       38
           5
             ******
  72
       49
             *******
  88
       47
            ********
 104
       60
           8
             **********
 120
       66
           8 ****************
 136
       57
           7
             ********
 152
       56
            *********
 168
       47
           6
             ********
       54
 184
           7
             ********
 200
       45
            ***********
           6
 216
       36
           5
            **********
 232
       40
            **********
 248
       29
            **********
       28
 264
            *********
 280
       18
           2
             *****
 296
       22
           3
             *****
 312
       13
           2
             *****
 328
       9
           1
             ****
 344
       14
           2 *****
 360
       8
           1
             ***
 376
           1
             **
 392
       4
           1
             * *
       2
 408
           0
 424
        2
           0
 440
        Д
             * *
 456
        0
           0
 472
        1
           0
 488
        1
           0
 504
        2
           0
 520
        0
           0
 536
        1
           0
 552
        0
           0
 568
        0
           0
 584
        0
           0
 600
        0
           0
 616
        0
           0
 632
        0
           0
```

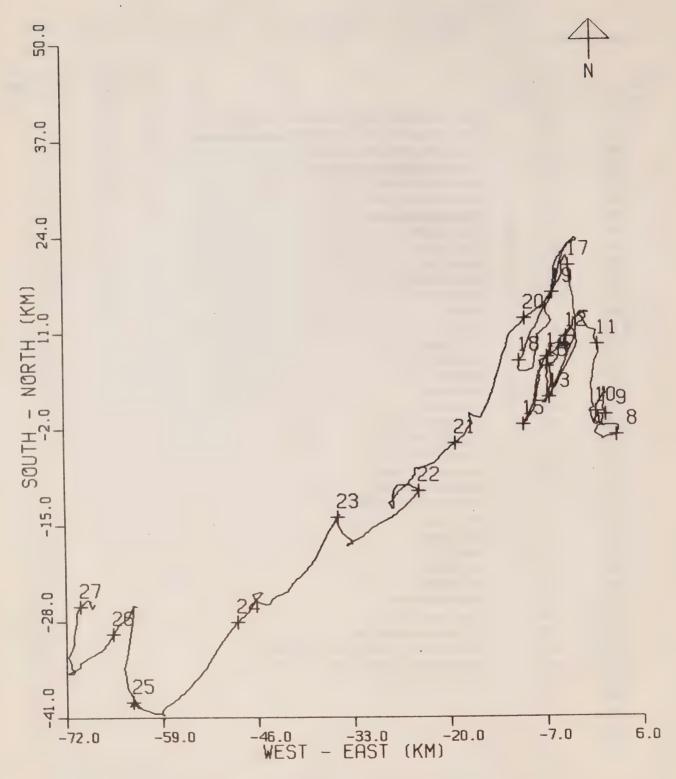
NO. OF SAMPLES OVER 640 = 3
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 798
SAMPLE INTERVAL = 15 MINUTES

#### HISTOGRAM OF DIRECTION

HOWE SOUND HS=58 DEPTH 3M. START DATE 26/02/73

```
MEDTAN
      FRERINCY
                     20
                              40
                                      60
                                              80
                                                      100
(DEG.T) NO. PCT
  5
       53
           7
             ********
  15
       61
           8
             *******
  25
      45
              *******
           6
     . 35
  35
           4
              ******
  45
       22
           3 ********
  55
       23
           3
  65
       24
          3
  75
      15
           2
  85
       15
           2
  95
       14
           2
 105
      15
           2
              *****
 115
       15
           2
              ****
       7
 125
           1
 135
       10
           1
 145
       13
           2
 155
       15
           2
              *****
 165
       12
           2
       12
 175
           2
       12
 185
       20 3
 195
 205
       19
           5
 215
       25
          3 *******
 225
       5.5
           3 ********
 235
       23
           3
              *****
       27
 245
           3 ********
       13
 255
           2
              ****
 265
       14
           2 ******
 275
       7
           1
 285
       14
 295
       1.3
           2
 305
       20
           3
             *****
 315
       1.8
 325
       27
              *****
 335
       48
           6
 345
      44
            *********
           6
       29
 355
          4
             ********
 365
       0
           0
 375
       0
           0
 385
        0
 395
        0
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 79
SAMPLE INTERVAL = 15 MINUTES



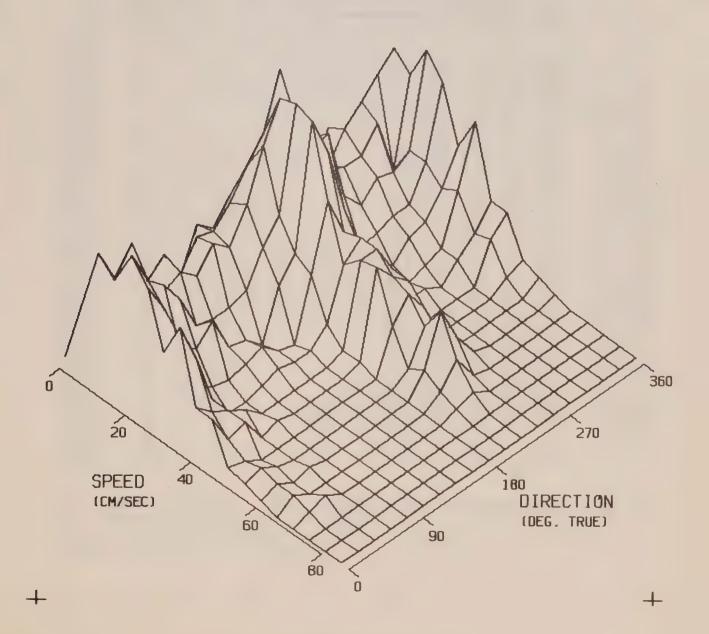
STN. NO. HS-5S DEPTH 3 M.

STARTING DATE: 7/ 3/73 ENDING DATE: 27/ 3/73

+

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5S DEPTH 3 M. STARTING DATE: 7/ 3/73
NO. OF SAMPLES = 1917



STN. NO. HS=58 DEPTH 3 M.

STARTING DATE: 7/ 3/73 SAMPLE INTERVAL = 15 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

#### SPEED

345=359	005	-		020	018	008	001	35	12		0		101
300=314 315=329 330=344	013 004 006	018 023 021	017 014 011	006 010 011	003	002	001						57 56 67
270=284 285=299	007	014	011	005	003								40 46
240=254	005	025	024	015	009	005	002	003	001				89 <b>5</b> 5
225-239	011	035	026	021	018	016	012		.002				151
210-224	017	040	037	020	015		014		005				176
195=209	008	041	043	035		020	006		001				179
180=194	011	032	033	021	006	008	002	001					114
150=164 165=179	010	021	020	005	001								70
135=149	013	016	011	001	001								55
120=134	006		006	200									39 42
105=119	008	150	012	006	001								48
90=104	013	009	012	005									37
75- 89	005	017	012	007									41
60= 74	011	017	018	005	002	002							55
45= 59	005		015	006		003		001					54
30= 44	003	021	055	012	007	004	001	001	002				72
0 = 14 15 = 29	020	029	034	027	026		004	004	001	001			122
			. 7 ()		• 7/	0.4.0	00/	0.0/1					151
DIR		159	239					639	719	799	879	959	
	TO	10	TO	10	TO	TO	TO	TO	TO	TO	TO	TO	
	000	080	160	240	320	400	480	560	640	720	800	880	

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 0

#### HISTOGRAM OF SPEED

HOWE SOUND HS-58 DEPTH 3M. START DATE 07/03/73

```
MEDIAN
       FREGINCY
                       40
                               80
                                       120
                                                160
                                                         200
(MM/S)
       NO. PCT
  9
       Q
  27
       38
               *****
  45
       68
  63
       76
               ******
  81
       107
  99
       126
               *********
 117
       140
 135
       113
              *********
 153
       134
              ********
 171
      125
 189
      125
              *******
 207
       96
              ******
 225
       87
            5
 243
       79
 261
       77
 279
       63
              ******
 297
       53
              ********
 315
       41
 333
       34
 351
       44
 369
       40
            2
              *****
       29
 387
              *****
 405
       26
 423
       31
              *****
 441
       23
 459
       28
              ****
 477
       15
 495
       18
 513
        6
            0
              **
 531
        8
              **
 549
       10
              安安会
 567
        4
            0
 585
       17
           1
              ***
 603
        7
           0
              **
 621
        4
           0
 639
        4
           0
 657
        4
           0
        2
 675
           0
 693
        3
           0
              黄
 711
        3
```

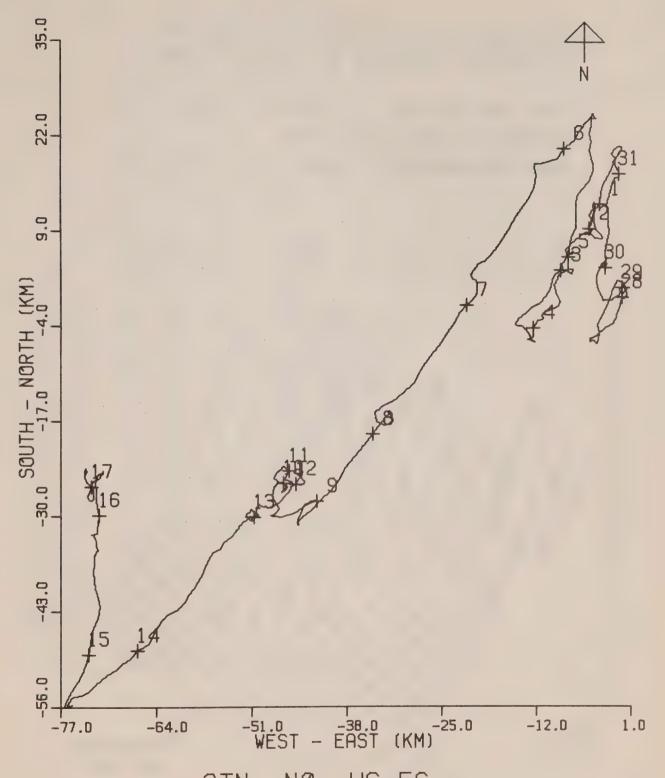
NO. OF SAMPLES OVER 720 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 1917
SAMPLE INTERVAL = 15 MINUTES

### HISTOGRAM OF DIRECTION

HOWE SOUND HS-58 DEPTH 3M. START DATE 07/03/73

```
150
                                  90
                                        120
                   30
                          60
     FREGINCY
MEDIAN
(DEG.T) NO. PCT .
  5
     123
  15
      72
           *********
  25
      83
           *********
  35
      53
           *****
  45
      39
  55
      36
           ******
  65
      30
          2
  75
      31
            ******
      35
  85
  95
      23
          1
 105
      31
      28
 115
          -1
      27
 125
      28
 135
 145
      26
 155
      32
          2 ********
      44
            *********
 165
      49
 175
           ************
 185
      66
          3
          5 ***************
 195
      102
            ***********
      128
 205
          7
 215
      114
            *********
            **********
 225
      128
          7
 235
      89
          5
            *********
      59
 245
          3
            ******
 255
      43
          2
            *********
 265
      31
 275
      30
          2
      24
 285
          1
 295
      36
          2
            *****
 305
      39
            ********
 315
      33
           ******
 325
      43
            ********
 335
      43
            ********
 345
      56
          3
            ******
 355
      63
          3
       0
 365
          Ö
 375
       0
          0
 385
       0
          0
 395
       0
          0
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 1917
SAMPLE INTERVAL = 15 MINUTES



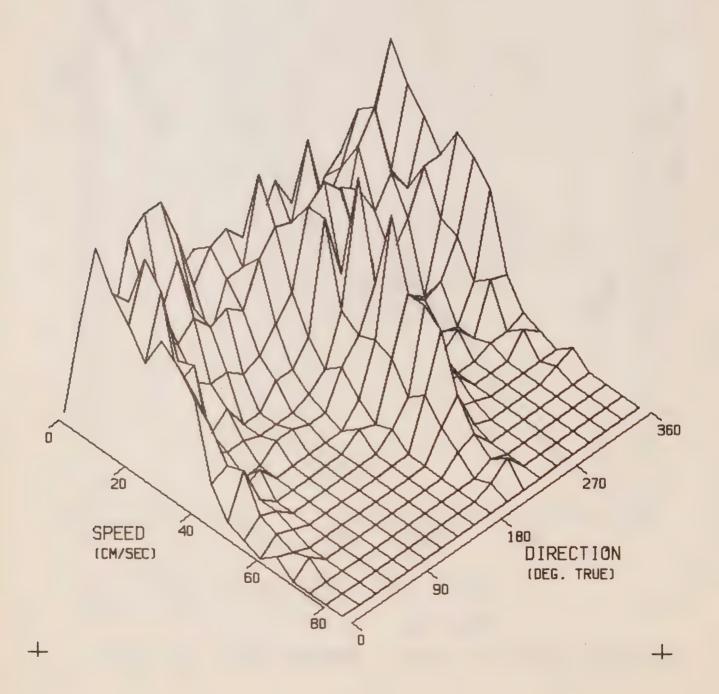
STN. NO. HS-5S DEPTH 3 M.

STARTING DATE: 27/ 3/73 ENDING DATE: 17/ 4/73

+

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5S DEPTH 3 M. STARTING DATE: 27/ 3/73
NO. OF SAMPLES = 2000



STN. NO. HS#5S DEPTH 3 M.

STARTING DATE: 27/ 3/73
SAMPLE INTERVAL = 15 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

#### SPEED

	000	0.80	160				480	560	640	720	800	880	
	TO	TO			TO		TO	TO	TO	TO	TO	TO	
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
0 4 ()	015	405			. 7.4								
0= 14			018				006						130
15= 29	010	027		025					001	001			132
30= 44	008	025		016	010		005	001					90
45= 59	014	031		011			005						76
60- 74	016	031	014	004	003	005							70
75- 89	011	056	018	007	005								64
90-104	012	016		004	0.05								49
105-119	015	016			002	005							54
120-134	010			005									41
135-149	012	<b>USS</b>		008									57
150=164	011	018	055	0.05	200		005						60
165=179	009	025		008	003		002						69
180-194	007	023	024	015	010	007	003	001	001				91
195-209	009	050	055	029	010	013	0.08	010	0.05	001		001	128
210=224	010	150	950	020	027	029	023	019	004	001			180
225#239	005	017	027	027	012	014	012	011	001	003			129
240-254	010	055	028	013	011	010	006						100
255=269	003	020	013	011	005	004	003	001					60
270-284	006	017	012	0.08	006	001							50
285-299	013	013	017	004	003	500							52
300-314	007	022	015	006	004	200							56
315-329	014	026	055	005	003		001						71
330=344	009	024	018	013	010	004	001	002					81
345=359	009	850	018	019	024	008	003		001				110
	245		472		190		8.0		1.4		0		2000
		529		290		124		49		6		1	

NO', OF SPEEDS EXCEEDING 960 MM/SEC = 0

### HISTOGRAM OF SPEED

# HOWE SOUND HS-58 DEPTH 3M. START DATE 27/03/73

```
120
                                    160
                                               200
                          80
                  40
     FREGINCY
MEDIAN
(MM/S)
     NO. PCT
                            .
     20
         - 1
  10
            ******
  30
      46
            *******
      74
  50
            ******
     112
  70
            *********
 90
     133
          7
            *********
 110
     146
            **********
 130
     133
            *******
 150
     116
          6
            ********
 170
     119
          6
            *********
 190
     132
            ********
     114
          6
 210
            ********
 230
     106
          5
 250
      88
 270
      77
            ******
 290
      53
 310
      72
            ******
          3
            *********
      66
 330
      46
          2
           *****
 350
      4.0
          2
 370
            *******
 390
      36
           ******
      27
 410
          1
            *****
 430
      37
          2
           ******
 450
      38
            ****
      20
 470
 490
      16
          1
 510
      30
          2
      25
 530
          1
      9
 550
            **
 570
      13
            ***
 590
      8
            黄金
      16
 610
          1
            ***
 630
      12
            ***
          1
 650
       3
          0
       5
 670
          ()
 690
       3
          0
       2
 710
          0
       2
 730
          0
 750
       0
          0
 770
       2
          0
 790
          0
```

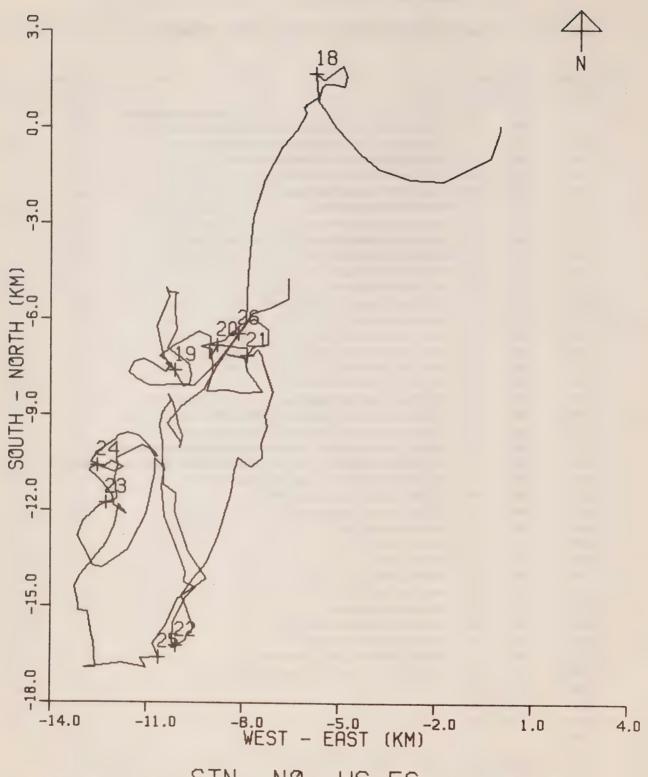
NO. OF SAMPLES OVER 800 = 1 NO. OF SAMPLES UNDER 0 = 0 TOTAL NO. OF OBSERVATIONS = 2000 SAMPLE INTERVAL = 15 MINUTES

### HISTOGRAM OF DIRECTION

HOWE SOUND HS-58 DEPTH 3M. START DATE 27/03/73

```
MEDTAN
      FREGINCY
                   30
                                  90
                                         120
(DEG.T) NO. PCT
  5
     101
  15
      91
          5
           *********
  25
      75
  35
     64 3
  45
     51
          3
  55
     52
          3
  65
     43
  75
      46
  85
     43
          2
 95
      37
 105
      33
 115
     32
 125
     29
      30
 135
          2
    1 41
 145
 155
     43
     35
 165
    50
 175
          3
 185
      57
          3
 195
      74
 205
      91
          5
            *********
 215
    108
    126
 225
            ***********
 235
     78
 245
      64
          3
 255
     54
          3
            ******
 265
      36
          2
 275
     35
 285
      23
 295
      46
 305
      34
          2
 315
      38
325
     56
335
      46
            *********
345
     61
            *******
      77 4
355
            ********
365
      0
375
      0
          0
385
      0
395
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2000
SAMPLE INTERVAL = 15 MINUTES



STN. NO. HS-5S

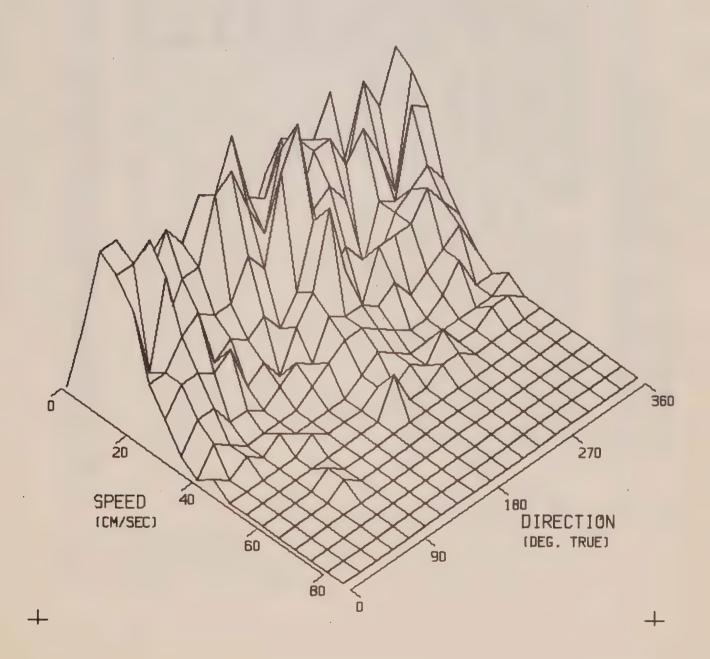
DEPTH 3 M.

STARTING DATE: 17/ 4/73 ENDING DATE: 26/ 4/73

+

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5S DEPTH 3 M. STARTING DATE: 17/ 4/73
NO. OF SAMPLES = 854



STN. NO. HS-5S DEPTH 3 M.

STARTING DATE: 17/ 4/73
SAMPLE INTERVAL = 15 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

000 080 160 240 320 400 480 560 640 720 800 880

#### SPEED

nir	TO 079	159	700	70 319	TO 399	TO 479	T0 559	TO 639	TO 719	TO 799	TO 879	T0	
		67. 366		- 78									
0-14	010		015			005							46
15= 29	0.03	018	0.05	006	003	0.0.1							36
30- 44	007	011	015	006	003	005							44
45- 59	007	005	010	010									32
60- 74	007	010	0.08	008	001			0.01					35
75= 89	009	012	004	004	001	0.01		0.01					32
90-104	007	015	006	003	001								32
105-119	003	010	005	005	001		0.01						55
120=134	007	013	009	004	001								34
135-149		018	007	0.05	005	001							30
150-164	006	017	0.06	005	005								33
165-179	008	009	0.08	005	0.05		001						36
180-194	004	010	016	005	004	005	0.02	0.01					44
195-209	005	013	017	019	004	003							61
510-554	0.05	011	009	005	004	005	0.01						37
225*239	0.08	017	009	005		0.0.1							40
240=254	010	010	007	003	003		0.01	0.01					35
255-269	0.05	016	010	006	005	0.01	001						41
270-284	004	012	003	0.05									24
285=299	005	011	0.03	004	0.05								25
300-314	001	011	007	008	003								30
315-329	0.05	014	005	007	005	0.01	001						38
330-344	006	006	014	0.05	005		0.01						37
345=359	001	016	006	004	003								30
	133		204		55		9		0		0		254
		298	E 0.44	134	,	17	,	4	4.1	0	t)	0	854
						,				*.7			

NO' OF SPEEDS EXCEFDING 960 MM/SEC = 0

### HISTOGRAM OF SPEED

HOWE SOUND HS-55 DEPTH 3M. START DATE 17/04/73

```
MEDIAN
        FREGINCY
                           20
                                      40
                                                 60
                                                           80
                                                                     100
(MM/S)
        NO. PCT
   -8
          6
   24
         11
                  ****
   40
         23
               3
   56
         53
                  *******
   72
         44
              5
   88
         47
         73
  104
                  **********
  120
         64
  136
         71
                  **********
  152
         43
              5
  168
         47
  184
         48
              6
  200
         39
  216
         43
         26
 232
              3
 248
         34
 264
         25
              3
         23
 280
              3
 296
         24
 312
         85
              3
 328
         17
 344
         11
 360
         10
 376
          9
 392
          6
 408
          5
 424
          4
 440
          3
              0
 456
          3
              0
                 * *
 472
              0
                 *
 488
              0
 504
          3
              0
 520
          1
 536
          2
              0
 552
          1
              ٥
          2
 568
              0
 584
          Ò
              0
 600
 616
          0
              0
 632
```

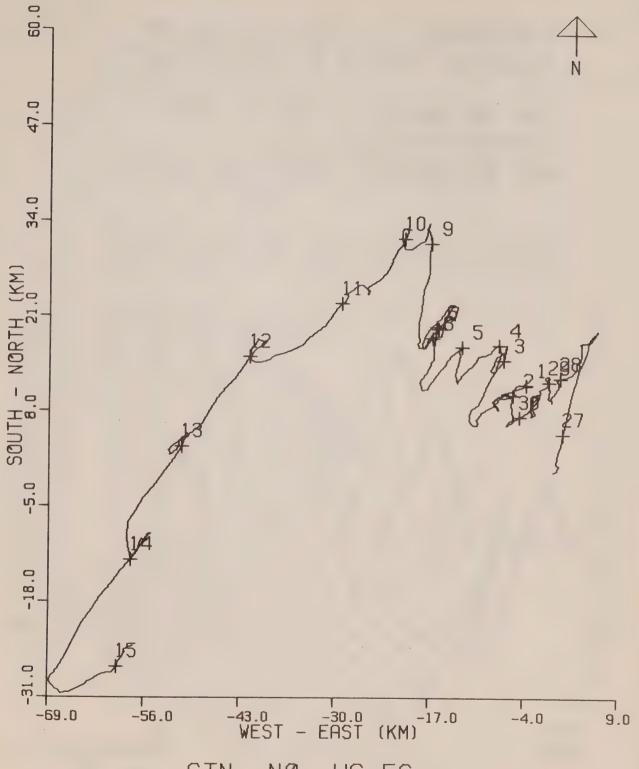
NO. OF SAMPLES OVER 640 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 854
SAMPLE INTERVAL = 15 MINUTES

### HISTOGRAM OF DIRECTION

HOWE SOUND HS-58 DEPTH 3M'. START DATE 17/04/73

```
50
                         30
                               40
                    20
              1.0
    FREGINCY
MEDTAN
(DEG.T) NO. PCT
        *********
    33
 5
        *******
     25
 15
       3
       3 ***********
    25
 25
        *******
 35
    36
       4
       3 ************
     23
 45
        ******
     20
 55
         *****
     20
 65
        *******
 75
     27
       3
        *****
 85
    1.8
       2 **********
 95
     20
        *****
     17
 105
       2 *********
     16
 115
       3 ************
     23
 125
       3 ***********
     23
 135
       **********
     20
 145
         ******
     23
       3
 155
         ******
 165
     24
         ******
        3
     27
 175
         ******
     29
       3
 185
         ***********
 195
     35
        4
         ***********
 205
     36
        71
     27
        3 **********
 215
         *******
     24
 225
        3
         *********
 235
     29
         ******
     22
 245
        3
         ******
 255
     25
        3
         *********
     25 .
        3
 265
        2
         ******
 275
     16
     16
        2
         ******
 285
         ******
 295
    16
     22
        3
         *******
 305
 315
    14
        2
         ******
         *********
     34
 325
         *******
     85
        3
 335
 345
    1.8
         **********
 355
     1.8
        2
         ******
     0
        0
 365
 375
     0
        0
     0
 385
        0
 395
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 854
SAMPLE INTERVAL = 15 MINUTES



STN. NO. HS-5S

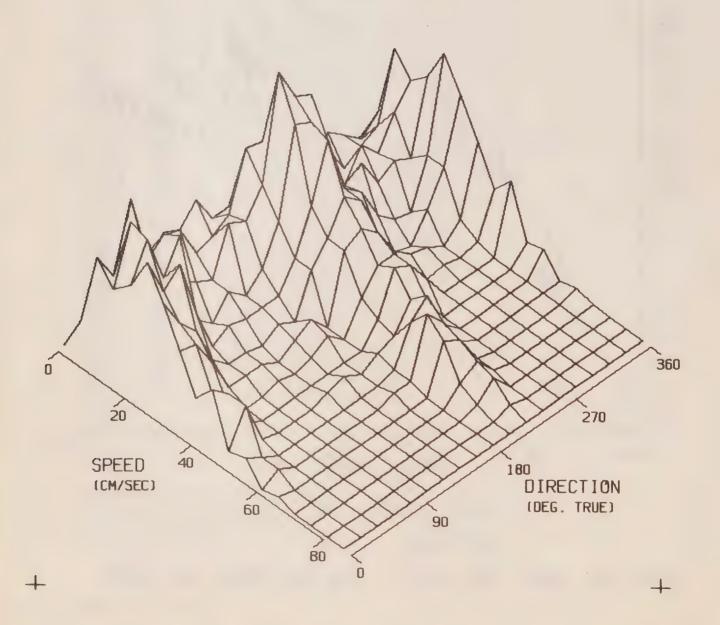
DEPTH 3 M.

STARTING DATE: 26/ 4/73 ENDING DATE: 15/ 5/73

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# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5S DEPTH 3 M. STARTING DATE: 26/4/73
NO. OF SAMPLES = 1805



STN. NO. HS-5S DEPTH 3 M.

STARTING DATE: 26/ 4/73 SAMPLE INTERVAL = 15 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

#### SPEED

DIR	000 TO 079	TO	10	740 TO 319	TO	400 TO 479		560 TO 639	640 TO 719		800 TO 879	880 TO 959	
0= 14 15= 29 30= 44 45= 59 60= 74 75= 89 90=104 105=119 120=134 135=149	006 009 011 011 005 010 015 013	015 029 028 028 022 018 014 018 007 022	031 034 026 030 020 007 006 006 006	034 026 022 015 007 003 005 004 001	016 012 001 002 001 003 001 002 001	016 009 004		004					131 133 104 85 56 39 43 42 24
150=164 165=179 180=194 195=209 210=224 225=239 240=254 255=269 270=284 285=299 300=314 315=329 330=344 345=359	005 012 011 011 015 013 009 007 005 012 007 007 004 008	016 022 024 039 037 032 028 019 017 013 005 007	012 010 029 038 038 020 018 012 013 009 012 016 021	002 002 012 018 029 025 016 008 003 002 004 003 011	005 004 001 016 014 018 011 005 005 001 001	001 004 014 019 008 002 001	009	001 002 017 014 004 001			001		41 50 83 155 188 140 105 59 42 42 26 29 51 88
	228	504	448	268	154	85	46	45	20	6	1	0	1805

NO, OF SPEEDS EXCEEDING 960 MM/SEC = 0

#### HISTOGRAM OF SPEED

## HOWE SOUND HS-58 DEPTH 3M. START DATE 26/04/73

```
FREGINCY
                               80
                                       120
                                                        200
MEDIAN
                      40
                                               160
      NO. PCT
(MM/S)
  10
       21
            1
  30
       54
            3
              *********
  50
       70
              ******
  70
       88
            5
              *******
  90
       132
 110
      114
              ********
            6
      124
            7
              *********
 130
 150
      138
            8
              ********
              **********
 170
      139
            8
 190
      112
              ********
            6
 210
      103
            6
              ********
 230
       93
            5
       84
 250
            5
              *******
       62
 270
            3
 290
       66
              *****
       50
            3
 310
              *****
 330
       53
            3
              *****
       48
 350
            3
              ********
 370
       27
       25
 390
       20
 410
       20
 430
 450
       24
       21
 470
 490
       16
       13
 510
            1
              * * *
 530
        5
            0
 550
       13
            1
 570
       17
            1
 590
        10
            1
 610
        8
            0
              * *
 630
            0
 650
        7
            0
              * *
 670
        6
            0
              * *
 690
        5
            0
              ŵ.
        2
 710
            0
              ŵ
        5
 730
            0
 750
        Ö
            0
 770
            0
 790
        0
            0
```

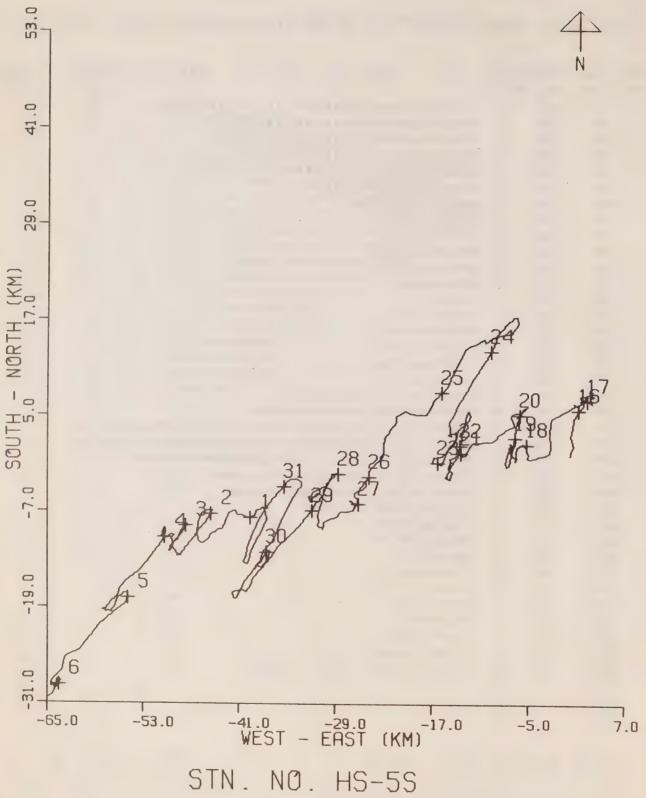
NO. OF SAMPLES OVER 800 = 1
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 1805
SAMPLE INTERVAL = 15 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-58 DEPTH 3M' START DATE 26/04/73

```
MEDTAN
     FREGINCY
                   30
                           60
                                  90
                                        -120
(DEG.T) NO. PCT .
  5
      101
          6
  15
      85
  25
      85
            *******
  35
      75
  45
      59
          3
  55
      54
          3
  65
      40
  75
      26
  85
     24
  95
      32
 105
      26
     27
 115
 125
      16
          1
 135
      30
 145
      3.0
 155
      26
 165
      32
 175
      31
     59
 185
 195
     68
 205
    126
          7
 215
     122
            **********
    108
 225
     83
 235
            ********
 245
      79
            ********
 255
      53
          3
     34
29
 265
 275
     23
 285
 295
      29
 305
     16
    23
 315
 325
      20
 335
      27
 345
      37
            *******
 355
      70 4
            ********
 365
     0
 375
      0
          0
 385
      0
          0
 395
       0
```

NO. OF SAMPLES OVER 400 = 0 NO. OF SAMPLES UNDER 0 = 0 TOTAL NO. OF OBSERVATIONS = 1805 SAMPLE INTERVAL = 15 MINUTES



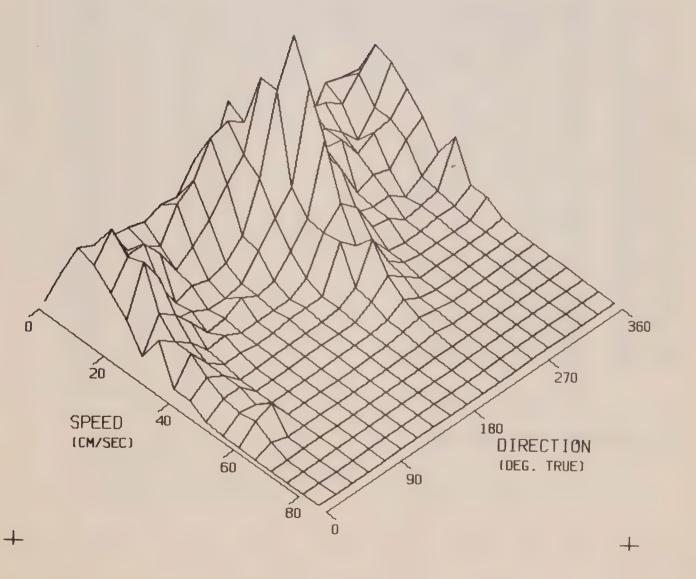
DEPTH 3 M.

STARTING DATE: 15/ 5/73 ENDING DATE: 6/ 6/73

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# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5S DEPTH 3 M. STARTING DATE: 15/5/73
NO. OF SAMPLES = 2108



STN. NO. HS-58 DEPTH 3 M.

STARTING DATE: 15/ 5/73
SAMPLE INTERVAL = 15 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

#### SPEED

DIR	000 TU 079	080 TO 159	160 TO 239	240 TO 319	320 10 399	400 TO 479	480 TO 559	TO	10	720 TO 799	800 TO 879	880 TO 959	
0= 14 15= 29 30= 44 45= 59 60= 74 75= 89 90=104 105=119	015 016 013 010 014 011 015	034 029 033 026 021 019 008 016	030 035 021 020 004 006 002	026 022 012 005 001	018 014 011 003 002 003	009 011 008 001	002 005 010	006	001				130 143 125 72 46 40 25
120=134 135=149 150=164 165=179 180=194 195=209 210=224 225=239 240=254	010 014 018 015 019 030 025 020	023 024 032 047 039 048 041 031	001 007 010 020 037 053 069 056 033	001 001 002 016 010 025 052 031	001 001 003 021 029 013 012	001 003 009 016 010	001 002 007 007	004	001				35 47 63 100 112 188 244 170 113
255=269 270=284 285=299 300=314 315=329 330=344 345=359	013 012 011 009 014 017 012	026 024 026 014 016 024 029	017 019 012 011 012 016 016	013 002 008 005 003 007 005	006 005 001 001 002 002								75 62 58 40 47 66 69
	361	662	511	290	156	72	35	19	5	0	0	0	2108

NO. OF SPEEDS EXCEFDING 960 MM/SEC = 0

#### HISTOGRAM OF SPEED

HOWE SOUND HS=58 DEPTH 3M. START DATE 15/05/73

```
MEDTAN
      FREQINCY
                                        150 200
                       50
                               100
                                                          250
(MM/S)
      NO. PCT
  8
       17
  24
       48
            2
               ******
  40
       75
  56
       110
            5
               ******
  72
      121
            6
               ********
  88
      124
  104
       143
  120
      131
  136
       132
             6
               ********
  152
      128
               *********
             6
        90
  168
  184
       126
  0.05
      118
        97
             5
  216
               *******
        79
  232
               ******
        83
  248
        62
             3
  264
  280
        51
  296
        50
             2
  312
        41
             2
  328
        46
             2
        39
  344
             2
        24
  360
             1
        22
  376
               ***
  392
        23
        19
  408
             1
  424
        15
             1
  440
        13
             1
  456
        14
             1
               ***
  472
        11
               **
  488
        15
               ***
             1
  504
        6
             0
               余
  520
         6
             0
  536
             0
         6
         2
  552
             0
         2
  568
             0
         4
  584
             0
         7
  600
             0
  616
         5
             0
  632
         1
             0
```

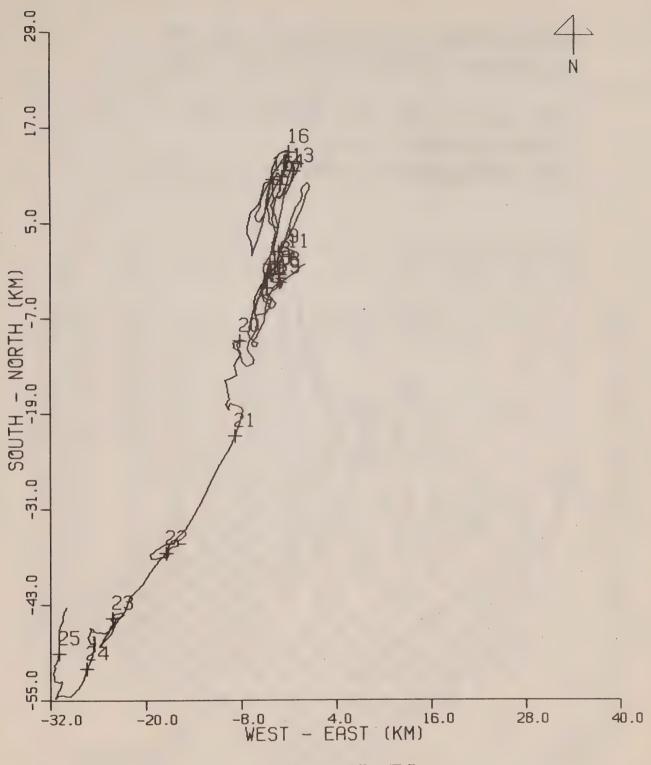
NO. OF SAMPLES OVER 640 = 2
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2108
SAMPLE INTERVAL = 15 MINUTES

#### HISTOGRAM OF DIRECTION

HOWE SOUND HS-58 DEPTH 3M' START DATE 15/05/73

```
80
                                  120
                                        160
                                                 200
MEDIAN
     FREGINCY
                   40
(DEG.T) NO. PCT .
                                  .
            *******
      88
  5
  15
            ********
      92
  25
     103
          5
            *********
          5
            *********
  35
     95
  45
      49
          2
  55
      45
  65
      35
      22
  75
      29
  85
            *****
      18
  95
          1
 105
      18
            ****
      27
 115
            *****
 125
      25
          1
      27
 135
          1
      32
          2
            *****
 145
      39
 155
            *****
      59
 165
          3
            *****
      69
 175
          3
            ******
 185
      65
          3
            **********
      112
          5
 195
            ********
 205
     130
            *********
          6
 215
     169
          8
            ************
 225
     134
            **********
          6
 235
     102
          5
           *************
 245
      83
      50
 255
          2
            ********
      5.1
          2
 265
            *****
 275
      36
          2
 285
      50
          2
            ********
      35
 295
          2
 305
      26
          1
 315
      31
          1
 325
      30
          1
 335
      42
 345
      42
          2
            ******
 355
      48
          2
            ******
 365
      0
 375
       0
          0
 385
       0
          0
 395
       0
          0
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2108
SAMPLE INTERVAL = 15 MINUTES



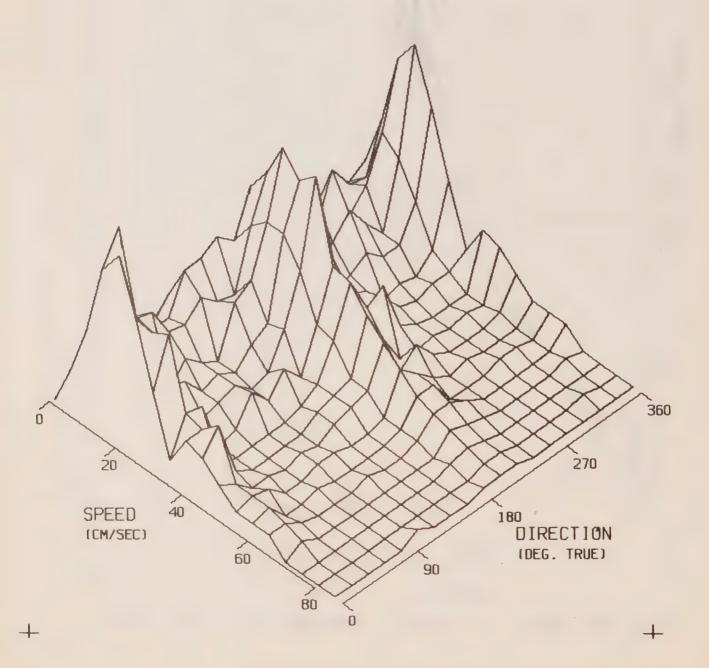
STN. NO. HS-5S

DEPTH 3 M.

STARTING DATE: 7/ 6/73 ENDING DATE: 25/ 6/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5S DEPTH 3 M. STARTING DATE: 7/6/73 NO. OF SAMPLES = 1728



STN. NO. HS=58 DEPTH 3 M.

STARTING DATE: 7/ 6/73 SAMPLE INTERVAL = 15 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

#### SPEED

DIR	000 10 079	TO	- TO	70 319	TO	TO	TO	TO	TO	TO	800 TO 879	TO	
0= 14 15= 29 30= 44 45= 59 60= 74	009 005 010 007	037 037 027 021 018	022 020 011 008	026 017 004 007	010	013	001	005					165 134 86 49 40
75 = 89 90 = 104 105 = 119 120 = 134 135 = 149	005 003 008 007 011	013 009 017 015 016		009	001 005 002 001 006			001			001		34 33 43 33 56
150=164 165=179 180=194 195=209	005 007 010 009	021 013 027 028	010 029 027 047	007 021 025 044	005 004 015 025	002 003 014 018	003 005 012	005	001			001	53 78 128 196
210=224 225=239 240=254 255=269 270=284	011 015 009 009	023 020 018 014 007	014	023 013 008 004 008	012 013 009 004 002	002	007 005 005 001			005	001		138 87 65 43 34
285=299 300=314 315=329 330=344	007 005 005 007	011 013 012 014	016 008 008 020	003 003 006	200	001		001	001		001		39 29 33 50
345=359	183		-	293			62		20	5	7	1	80 1726

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 2

#### HISTOGRAM OF SPEED

HOWE SOUND HS-59 DEPTH 3M. START DATE 07/06/73

```
FREGINCY
                     40
                             80
                                     120 160
                                                     200
MEDIAN
     NO. PCT .
(MM/S)
  11
      16
           1
  33
       35
           2
             *****
  55
      66
              ******
  77
      107
             *****
           6
  99
              *******
      118
 121
      126
           7
             *********
      132
             **********
 143
 165
      130
           8
      117
           7
              *******
 187
           7
 209
      118
 231
      107
              ********
      89
           5
 253
 275
       80
           5
             ******
 297
       72
              *******
 319
       52
           3
       40
 341
 363
       47
 385
       46
           3
             *******
 407
       24
           1
 429
       35
           2
             *****
 451
       20
 473
       24
 495
       18
 517
       16
           1
 539
       17
 561
       11
           1
 583
       8
           0
             **
        7
 605
           0
 627
       1.3
           1
              ***
 649
        8
           0
              * *
 671
        6
           0
              str. str.
 693
           0
 715
        5
           0
 737
           0
 759
           0
 781
        1
           0
 803
        2
           0
 825
           0
 847
        3
 869
        0
```

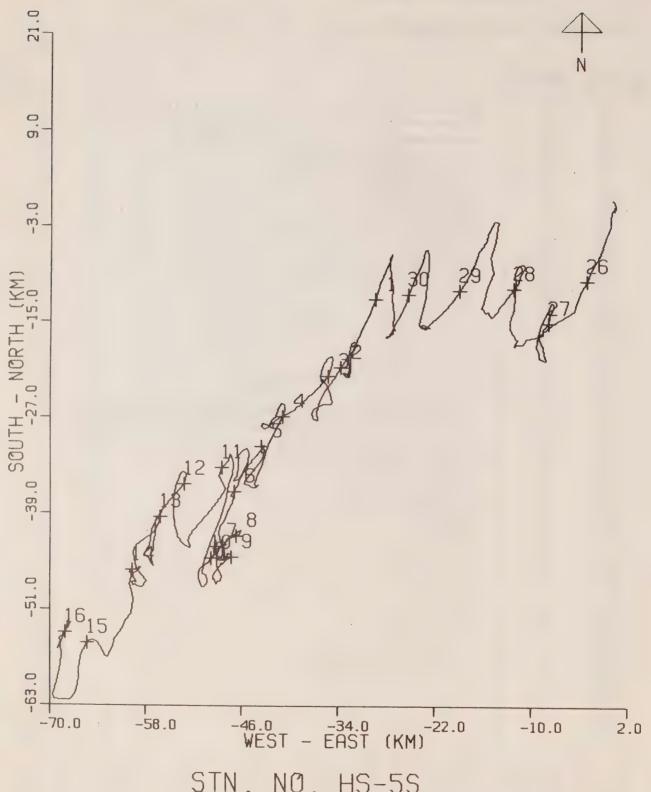
NO. OF SAMPLES OVER 880 = 3
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 1728
SAMPLE INTERVAL = 15 MINUTES

#### HISTOGRAM OF DIRECTION

#### HOWE SOUND HS-58 DEPTH 3M START DATE 07/06/73

```
MEDIAN
     FREGINCY
                  30
                          60
                                 90
                                       120
(DEG.T) NO. PCT .
  5
     123
          7
  15
      90
          5 ****************
     97
  25
          6 **************
     59
  35
          3
            *******
  45
     34
  55
     35
          2 *********
  65
      26
  75
     21
         1
  85
      23
            *****
         1
 95
      25
         1 *****
      27
 105
          2 *******
      26
 115
          2 *******
 125
      25
         1
 135
      31
          2
            *******
 145
      3.8
          ********
 155
      29
 165
     46
          3 *********
 175
     66
         4 ************
 185
      78
          5 **************
 195
     120
          7 *************
 205
    127
           **********
     82
 215
          5 *************
 225
      80
          5 **************
     49
 235
         3 *********
 245
     41
          2 *********
 255
      49
           ******
          3
 265
     20
         1 ****
 275
      16
         1
 285
      31
         2 *******
 295
      25
           ****
 305
     21
         1
            *****
 315
     20
         1 ****
 325
     25
         1
 335
     26
         2 *******
 345
      45
           *********
          3
            *********
 355
     52
         3
 365
      0 0
 375
       0
         0
 385
      0
          0
 395
       0
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 1728
SAMPLE INTERVAL = 15 MINUTES



STN. NO. HS-5S

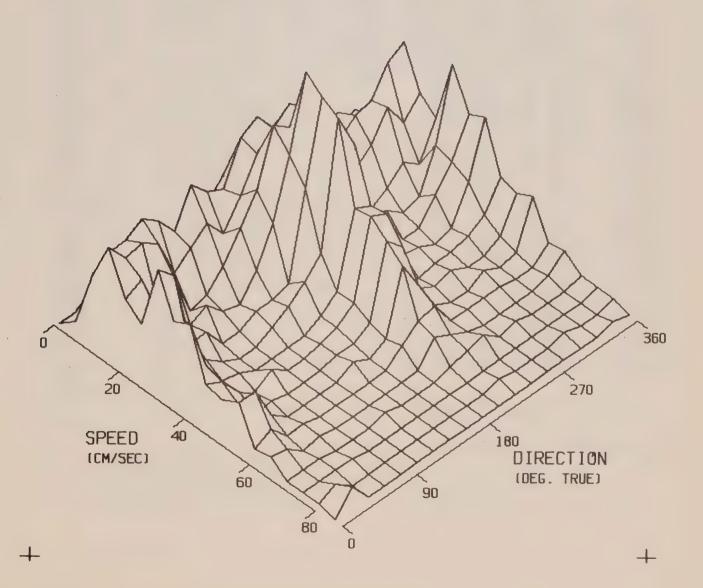
DEPTH 3 M.

STARTING DATE: 25/ 6/73 ENDING DATE: 16/ 7/73

+

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5S DEPTH 3 M. STARTING DATE: 25/6/73
NO. OF SAMPLES = 2000



STN. NO. HS=58 DEPTH 3 M.

STARTING DATE: 25/ 6/73 SAMPLE INTERVAL = 15 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

#### SPEED

					320 TO				640	720	800 TO	880 TO	
DIR	10	(50	70						719				
DIM	0/7	137	F 23 7	11,	2''	71,	J.J.	0,,		,			
0= 14	006	026	016	029	022	019	015	005	004	002	0.01		145
15= 29	0.05	024	020	024	010	007	011	004	005	005	0.05		114
30= 44	010	026	014	013	007	0.05	005	002	001	001			81
45- 59	007	024	013	008	003	005	001						58
60= 74	006	026	012	005	005	001		001	001	001			55
75- 89	006	015	006	004		0.05							33
90-104	006	019	0.08	002									35
105=119	006	023	009	004					0.01				43
120-134	005	017	007		004								33
135-149	0.08	015	017	0.06	0.05	0.01	001	0.05					52
150=164	013	018	024		006		0.01						72
165-179	010	027	024	055	0.08	003	0.01	0.03					98
180-194	008	031	047	028	055	008	004	0.03	0.05				153
195=209	011	026	038	056	041	030	030		003				241
210-224	009.	850	041		032		017	009	004		001		207
225=239			055		020		0.08		003				116
240-254	008	016	005		003				005				48
255#269		016			010								56
270-284					0.01		005	001	0.01				48
285=299		011			005								34
300-314			015				001	005		001			55
315-329					004								52
330-344													60
345=359	003	055	055	015	055	012	011	0.01	0.05	001			111
											-		
	172		455		236		108		56	_			Suóu
		504		333		140		43		8		0	

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 0

#### HISTOGRAM OF SPEED

HOWE SOUND HS-58 DEPTH 3M, START DATE 25/06/73

```
FREGINCY
MEDTAN
                    40
                            80
                                   120
                                           160
                                                   200
      NO. PCT .
(MM/S)
  11
      13
           1
  33
      30
           2
             *****
  55
      75
           4
             ******
  77
      103
           5
             *******
             *********
  99
      129
 121
      137
             *********
 143
      154
           8
 165
      137
           7
             *********
 187
      125
             *********
 209
           5
      108
             *******
       96
 231
           5
 253
       89
 275
       87
           4
             *******
             *******
 297
       97
           5
 319
       86
 341
       77
           4
             *****
       70
 363
           4
             ******
 385
       48
           2
             *******
 407
       48
             *****
 429
       42
 451
       42
           2
 473
       23
           1
 495
       32
           2
       22
 517
           1
 539
       37
             ****
       15
 561
           1
 583
       14
           1
 605
       10
           1
       12
 627
           1
             **
 649
       13
           1
             ***
 671
       4
           0
       4
 693
           ñ
 715
 737
        1
           0
 759
        2
           0
 781
       3
           0
 803
           0
 825
 847
        1
           0
 869
        3
           n
```

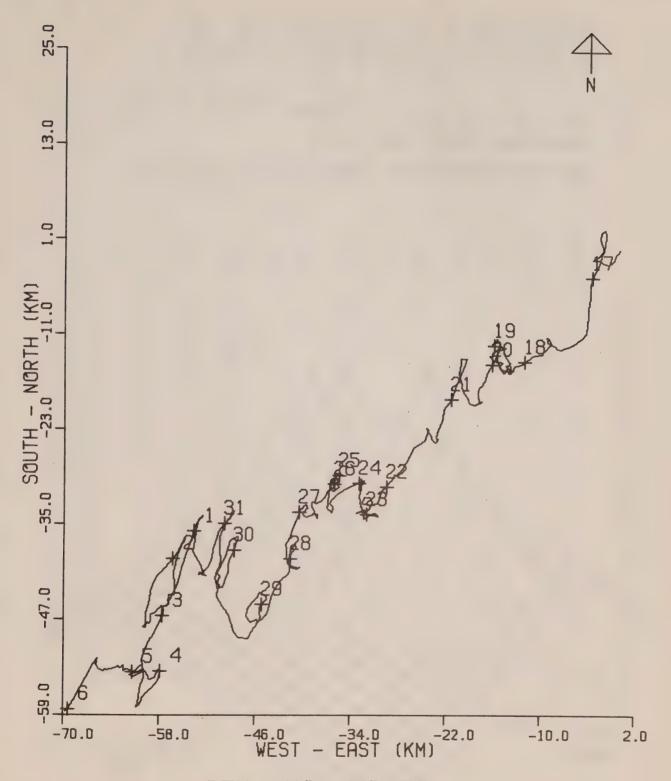
NO. OF SAMPLES OVER 880 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2000
SAMPLE INTERVAL = 15 MINUTES

### HISTOGRAM OF DIRECTION

HOWE SOUND HS-58 DEPTH 3M' START DATE 25/06/73

```
200
                                          120
                                                   160
                                 80
                        40
       FREGINCY
MEDIAN
(DEG.T) NO. PCT
   5
       106
  15
       99
  25
       64
       58
  35
  45
        36
        39
  55
        38
  65
        30
             2
  75
        55
  A5
            - 1
        25
  95
             1
        14
            1
  105
        35
  115
             5
        21
            1
  125
        85
  135
            1
                ****
               ******
        42
             2
  145
        43
  155
             2
        49
  165
        77
  175
             4
  185
        95
             5
       136
             7
  195
             9
  205
       170
                **********
  215
       144
             5
  225
       109
             3
                ******
  235
        61
             2
        31
  245
                ****
  255
             2
                *****
        41
        32 .
             2
  265
  275
        31
             2
  285
        23
             1
  295
        26
             1
  305
        36
             2
                *****
  315
        43
             2
  325
        27
             1
  335
        40
             2
        54
  345
             3
                *****
                ******
  355
        75
             4
  365
         0
             0
  375
         0
             0
  385
         0
  395
          0
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2000
SAMPLE INTERVAL = 15 MINUTES



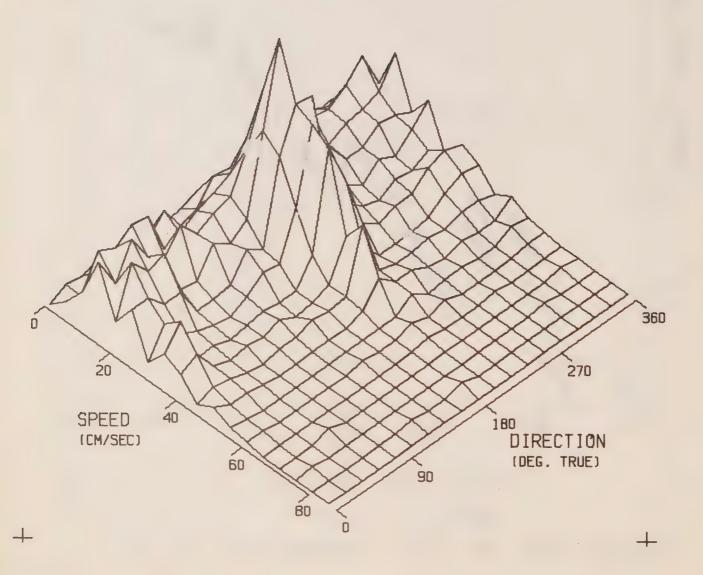
STN. NO. HS-5S

DEPTH 3 M.

STARTING DATE: 16/ 7/73 ENDING DATE: 6/ 8/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5S DEPTH 3 M. STARTING DATE: 16/7/73 NO. OF SAMPLES = 2000



STN. NO. HS-SS DEPTH 3 M.

STARTING DATE: 16/ 7/73 SAMPLE INTERVAL = 15 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG' TRUE)
- AND SPEED (MM/SEC).

#### SPEED

	000	080	160	240	350	400	480	560	640	720	800	880	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
0-14	004	021	0.58	014	050	008	005	0.01					98
15* 29	004	055	027	014	018	0.08	001	001		001			96
30= 44	007	019	026	010	004	004	002						72
45= 59	010	031	025	0.08		0.01	001						76
60= 74	007	920	014		003	005			002				65
75* 89	008	050.	0.05	003	001								37
90+104	005	012	012	005	005	0.01							34
105=119	008	010	009		004						001		32
120=134	010	016	014	005	001	003							49
135=149	005	016	014	012	001	001		001					47
150=164	006	012	014	006		003							41
165=179	009	053	031	018	003	0.05	001				005		89
180-194	013	029	062	040	055	011	0.05						179
195-209	009	042	074	062	041	0.50	0.06	005	001				257
210=224	007	034	055	046	023	009	0.05	001					180
225=239	007	037	025	016	015	003	0.03						106
240=254	008	025	024	004	003	003	003	0.05					72
255-269	010	018	022	012	0.05		0.05						69
270=284	008	019	011	005	005	004	0.01	0.01					54
285=299	008	012	014	007	005	001	001			001		001	50
300-314	010	026	0.05	010	006	004	001						68
315=329	007	019	021	008	011	005	001						72
330=344	005	024	150	011	014	003	0.01	002	001				88
345+359	007	018	023	012	007	008	005	0.01					81
	179				214				4		3		1997
		531		333		104		12		2		1	

NO'. OF SPEEDS EXCEEDING 960 MM/SEC = 3

#### HISTOGRAM OF SPEED

HOWE SOUND HS-5S DEPTH 3M. START DATE 16/07/73

```
MEDIAN
     FREGINCY
                  40
                          80 120
                                       160
                                               200
     NO. PCT .
(MM/S)
      19
  1.1
          1
  33
      37
            *****
          2
  55
      61
          3
            *****
  77
     116
            *******
          6
  99
     156
          8
            ********
 121
     138
          7
            **********
 143
     150
          8
            ********
 165
     174
     153
            **********
 187
          8
          8
            *********
 209
     166
 231
     131
          7
            **********
 253
     104
          5
            ********
      90
 275
      88
 297
          4
            *****
 319
      70
          4
            *****
      79
 341
            *****
 363
      57
          3
            ********
 385
      37
 407
      85
            ****
 429
      35
          2
            *****
      23
 451
      29
 473
            ****
 495
      15
          1
 517
      13
            ***
 539
       5
          0
 561
       4
          Õ
 583
       6
          0
            食食
 605
       2
          Ö
 627
       1
          0
 649
       1
          0
 671
       0
          0
 693
       1
          0
 715
       2
          0
 737
       1
          0
 759
       0
          0
 781
       1
          0
 803
       2
          0
 825
       1
          0
 847
       0
          Ô
 869
       0
          0
```

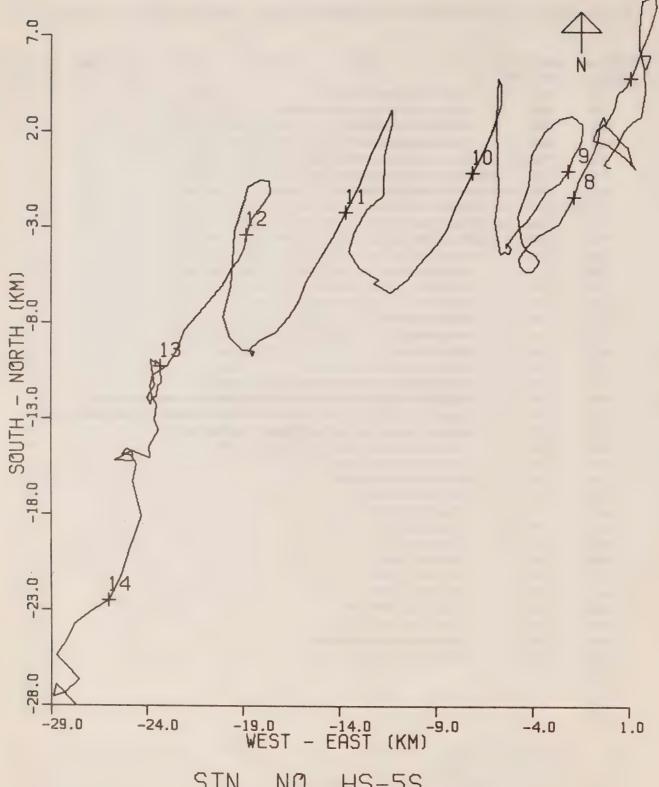
NO. OF SAMPLES OVER 880 = 4
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2000
SAMPLE INTERVAL = 15 MINUTES

#### HISTOGRAM OF DIRECTION

HOWE SOUND HS-58 DEPTH 3M. START DATE 16/07/73

```
MEDIAN FREGINCY
                     40
                              80
                                     120
                                              160
                                                      200
(DEG.T) NO. PCT
  5
      62
           3
  15
       83
           4
  25
      55
           3
  35
       45
           2
              *******
       55
  45
           3
              *********
  55
       46
           2
  65
       48
           2
              ******
  75
       24
  AS
       26
              *****
           1
  95
       24
           1
       19
 105
 115
       23
           1
 125
       35
              ****
           2
       24
 135
           1
       38
 145
           2
              *****
 155
       31
           2
 165
       36
           2
              *****
 175
       7.0
           4
              **********
 185
      104
           5
              *******
 195
      158
 205
      174
           9
 215
      117
              ********
      105
 225
           5
              *******
 235
      61
 245
       56
           3
              *********
 255
       43
              *******
 265
       38
       39
 275
 285
       30
       39
 295
           2
              *****
 305
       43
              ******
       39
 315
 325
       52
           3
              *****
 335
       48
 345
       68
           3
              *********
 355
       42
              *****
 365
       0
 375
        0
 385
       . 0
 395
        0
```

NO. OF SAMPLES OVER 400 = 0 NO. OF SAMPLES UNDER 0 = 0 TOTAL NO. OF OBSERVATIONS = 2000 SAMPLE INTERVAL = 15 MINUTES



STN. NO. HS-5S

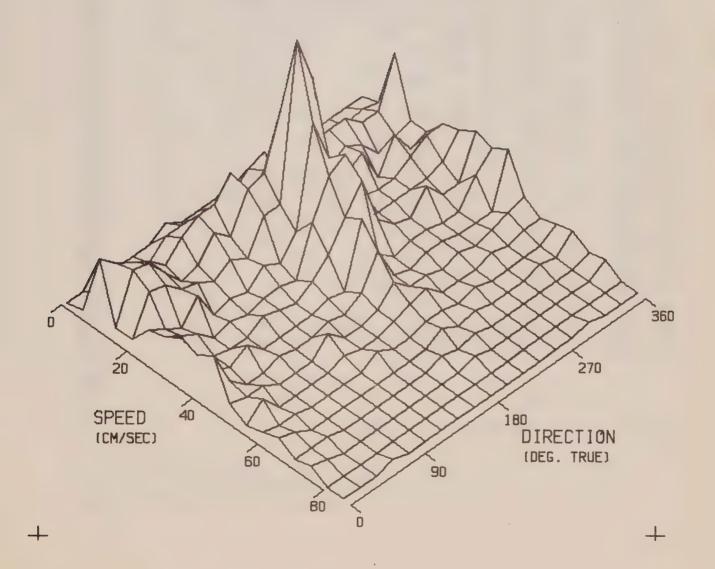
DEPTH 3 M.

STARTING DATE: 6/8/73 ENDING DATE: 14/8/73

+ FREQUENCY DISTRIBUTION OF

CURRENT SPEED & DIRECTION

STN. NO. HS-5S DEPTH 3 M. STARTING DATE: 6/8/73
NO. OF SAMPLES = 808



STN. NO. HS=5S DEPTH 3 M.

STARTING DATE: 6/ 8/73 SAMPLE INTERVAL = 15 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)
AND SPEED (MM/SEC).

#### SPEFD

D.T.O.	TO	TO	TO	10	TO	TO	TO	TO	TN	TO	800 TO 879	TO	
DIR	017	1 - 3 - 3	7 7	31,	3 / 7	7,7	,,,,,	13,37	, . ,	, , ,	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,	
0 = 14	002	013	008	009	007	009	005	003		200			58
15= 29	() () ( <sub>1</sub> )	017	008	004			002						43
30= 44	005		005				003						33
45- 59	002	007	007	003		001							20
60- 74		008	009	002	002						001		24
75= 89		004	004										10
90-104	003	002	004		002								11
105-119	004	007	004	001									16
120-134	004	011	004	002	001		0.03	001					26
135=149	003	009	002	002		001							17
150-164	002	011	010		200	001		0.02					28
165-179	002	014	009	003	003	0.01							32
180-194		007	013	011	005	002	0.03	002	001				44
195-209	006	018	048	025	014	012	004	001	001	001			130
210-224	007	011	041	024	019	005	0.03		0.01				108
225=239	•	011	009	011	007		0.05	0.01					41
240-254	001	0.04	008	004	0.03				0.01				15
255-269	001	0.06		001	005	005		001					1.8
270-284	003	009	006				001						21
285-299	001	012	003	0.03		0.01	001				001		23
300=314		005	001	200	0.05								13
315=329	001		007	005					0.01				16
330=344		003				0.01							19
345=359	005	005	003	004	007	010		0.01	005				34
	6.7		210		0.5		77.4		4.6				0.01
	2.5	207					31		10	/1	2		806
		607		161		2.3		15		4		0	

NO. OF SPEEDS EXCEFDING 960 MM/SEC = 2

#### HISTOGRAM OF SPEED

HOWE SOUND HS-58 DEPTH 3M. START DATE 06/08/73

```
MEDIAN
        FREDINCY
                           20
                                      40
                                                           8.0
                                                60
                                                                     100
(MM/S)
        NO. PCT
   13
   39
         26
               3
   65
         20
                  *******
   91
         69
                  ********
  117
         69
               9
  143
         60
  169
         76
               Q
                  ********
  195
         69
               9
                  **********
         71
               9
  221
  247
         46
               6
  273
         44
               5
  299
         37
               5
         39
               5
  325
         32
  351
  377
         21
               3
                  ******
  403
         23
               3
                  ********
  429
         14
  455
         16
               2
                  *****
  481
         10
               1
  507
         14
               2
                  *****
  533
          9
               1
          5
  559
               1
           2
  585
               0
          7
  611
               1
  637
          6
               1
                  ***
          4
  663
               0
  689
          1
               0
  715
           3
               0
                  * *
           2
  741
               0
                  *
           2
  767
               0
  793
           0
               0
  819
           0
               Ô
  845
           1
               0
  871
           1
               0
           0
  897
               0
  923
           0
               0
  949
           0
               0
  975
           Ô
               0
 1001
           0
               0
 1027
           0
```

NO. OF SAMPLES OVER 1040 = 2 NO. OF SAMPLES UNDER 0 = 0 TOTAL NO. OF OBSERVATIONS = 808 SAMPLE INTERVAL = 15 MINUTES

#### HISTOGRAM OF DIRECTION

HOWE SOUND HS-58 DEPTH 3M. START DATE 06/08/73

```
FREGINCY
                         20
                                   40
                                                       80
MEDTAN
                                             60
                                                                100
(DEG.T) NO. PCT
   5
        45
   15
        32
  25
        27
             3
        24
  35
  45
        19
             2
  55
        10
             1
  65
        19
             2
                ****
         8
  75
             1
         4
  85
             0
         8
  95
        10
  105
             1
                ***
  115
        1.0
             1
        21
  125
             3
 135
        1.1
             1
 145
        14
             5
  155
        18
             2
 165
        20
             2
        22
 175
             3
        27
 185
             3
 195
        56
             7
                ******
 205
        98
            12
                **********
        79
 215
            10
                *********
        34
 225
 235
        29
             4
 245
        14
             2
 255
        18
             2
        7
 265
             1
  275
        16
             2
  285
        14
             2
  295
        12
  305
        11
  315
        - 8
             1
  325
        12
             1
  335
        13
  345
        13
             2
  355
        25
             3
  365
         ()
  375
         0
             0
 385
         0
             0
 395
         0
             0
```

NO, OF SAMPLES OVER 400 = 0
NO, OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 808
SAMPLE INTERVAL = 15 MINUTES

#### HISTOGRAM OF SPEED

# HOWE SOUND HS-59 DEPTH 3M. START DATE 06/08/73

```
MEDIAN
      FREQINCY
                      20
                               40
                                        60
                                                80
                                                        100
(MM/S)
       NO. PCT
  11
        Q
  33
              ****
  55
       23
            3
              ****
  77
       44
              *****
  99
       53
              *********
 121
       58
                ********
 143
       53
            7
              ********
       57
 165
 187
       65
              *******
 209
       65
            8
              ******
 231
       45
            6
       37
 253
            5
              ******
 275
       37
            5
              *****
 297
       29
 319
       38
            5
              *****
       23
 341
            3
              ******
 363
       29
              *********
 385
       12
            2
              安安安安安安
 407
       22
            3
              ******
 429
       11
              ****
 451
       12
            2
 473
       11
            1
 495
       11
              安安安安安安
 517
        7
              食食食食
 539
        Q
              ****
 561
        2
            0
              嗽
 583
        1
            Ö
 605
        6
            1
              安女女
 627
        6
            1
              ***
 649
        4
            1
              食食
        2
 671
            0
              ×
        2
 693
            0
 715
        2
            0
              索
        5
 737
            0
        2
 759
            Ö
 781
        0
            0
 803
        0
            0
 825
        Ô
            0
 847
        1
            0
 869
        1
            0
```

NO. OF SAMPLES OVER 880 = 2
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 800
SAMPLE INTERVAL = 15 MINUTES

#### HISTOGRAM OF DIRECTION

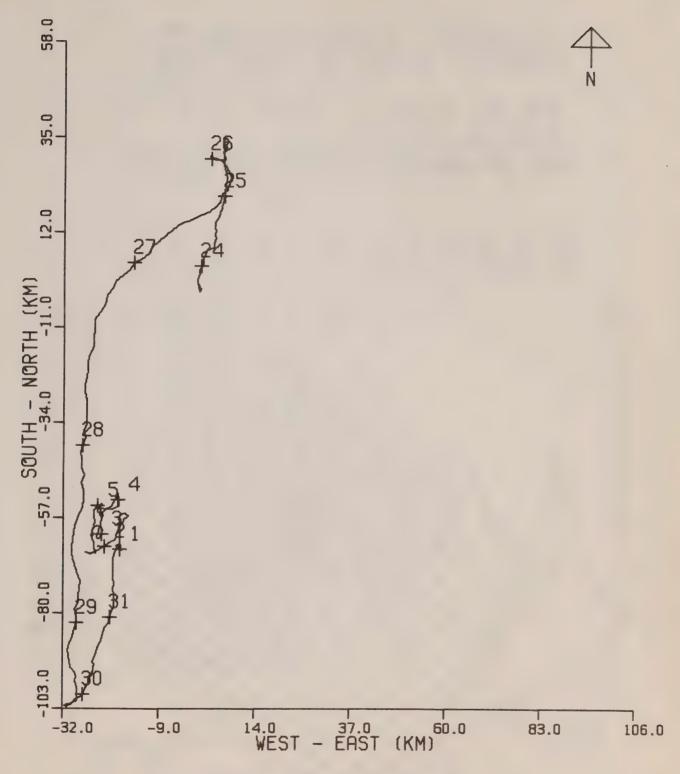
# HOWE SOUND HS-58 DEPTH 3M. START DATE 06/08/73

```
80
                                                    100
                              40
                                       60
                     20
MEDIAN
      FREGINCY
(DEG.T) NO. PCT .
                     .
              *******
   5
       45
          6
  15
       32
  25
       27
           3
              *****
  35
       24
           3
              ****
       19
  45
           2
  55
       10
           1
       18
  65
              ***
        8
  75
           1
        4
           1
  85
        8
  95
           1
 105
       10
           1
       10
 115
           1
 125
       18
           2
              *****
 135
       11
           1
              ****
 145
       14
           2
       18
           2
              ****
 155
 165
       20
           3
              ****
 175
       22
           3
              *******
 185
       26
           3
              ******
       56
           7
 195
       98
 205
           12
              ************
 215
       78
           10
              *******
 225
       34
           4
              ******
       29
 235
           4
              *********
 245
       14
           2
 255
       18
           5
              ******
       7
 265
            1
 275
           2
       16
              ****
       14
           2
 285
 295
       12
            2
              安全安全会会
 305
       11
           1
              ****
 315
       8
            1
 325
       11
            1
 335
       13
            2
 345
       13
            2
              ****
  355
       24
            3
              ****
 365
        0
            0
  375
        0
            0
  385
        0
            0
 395
        0
            0
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 800
SAMPLE INTERVAL = 15 MINUTES

DATA FOR 5-METRE DEPTH





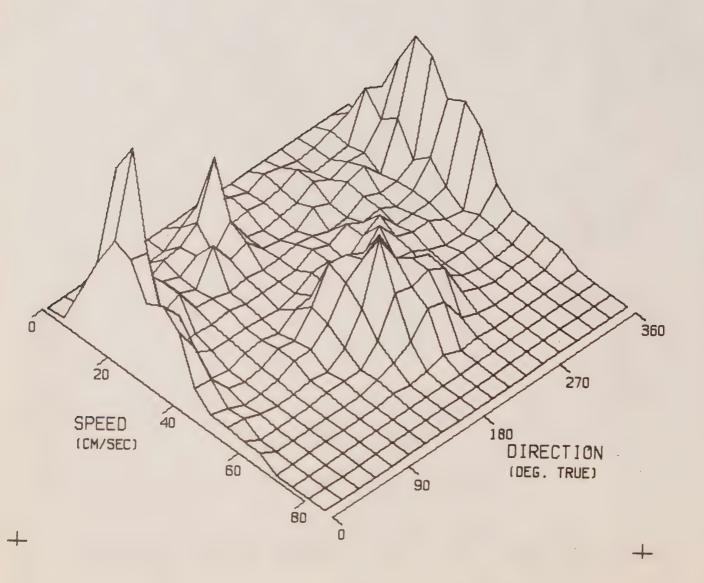
STN. NO. HS-5N

DEPTH 5 M.

STARTING DATE: 23/ 1/73 ENDING DATE: 5/ 2/73

FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N DEPTH 5 M. STARTING DATE: 23/1/73 NO. OF SAMPLES = 1822



STN. NO. HS-SN DEPTH 5 M.

STARTING DATE:23/ 1/73
SAMPLE INTERVAL = 10 MIN:

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

#### SPEED

	000	080		240		400	480	560	640	720	800	880	
	TO	TO	TO		TO		TO	TO	TO	TO	TO	TO	
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
0-14		033	069	045	041	008	007	006	001				210
15= 29	001	047	088	034	021	020	006						217
30- 44		056	031	010	008	002							77
45= 59		019	024	012			001						56
60- 74		006	016	007	005								34
75 = 89		006	009	007	002	003	001						28
90-104		008	003	008	001	005	003						28
105-119		008	016	003	005	004	003	001					40
120-134	005	010	008	001	002	001	005	001					30
135-149	006	008	007	005	003	013	010	003	003				58
150-164	010	026	010	003	005	023	022	004	002				102
165-179	006	022	004	005	009	029	031	032	004				142
180=194	003	001	002	003	004	018	045		007			001	109
195-209	004	003	001		010	023	030	026	012			~ ~ .	115
210-224		200	003	004	001	018	150	029	007				85
225-239		500		003	010	011	013	033	004				76
240-254	007		008	006	009	014	013	015	001				78
255=269	001	005		005	010	-	500		12 4				41
270-284			001	004	004	008	4. A. Alim	003					20
285-299		005	013	007	004	500	200	001					34
300-314	200		003	001	003	001							12
315-329	003	004		003	003	002	001						17
330-344	200	*** ***	017		006	002	., 0 *	W 1.7 E					55
345-359	006	024	042	033	028		005	002					157
	0.00	What I	THE TONI-	7, 3, 3	47		<i>-</i>	17 17 E					X 37
	53		377		191		555		41		0		1821
	-	289	seed of T	225		233		189	7.3	0	Ų,	1	1021
		Mark State .		Re- des				2 62 /		3.7		T	

NO' OF SPEEDS EXCEEDING 960 MM/SEC = 1

#### HISTOGRAM OF SPEED

HOWE SOUND HS-5N DEPTH 5M. START DATE 23/01/73

```
MEDIAN
     FREGINCY
                        60
                 30
                               90
                                  120
                                            150
     NO. PCT .
(MM/S)
  9
     0 0
 27
      0
 45
     3
         0
 63
     40
          *******
         2
 81
     45
           ********
 99
     47
           ******
 117
     77
         4
          *******
 135
     58
         3
          ********
 153
          ********
     72
 171
     104
           **********
         6
 189
     89
       5
          *********
 207
     97
         5
           *********
 225
     74
         4
          *******
 243
     48
         3
          ********
 261
     60
           ********
         3
 279
     49
         3
           ******
 297
     46
         3
          *****
 315
     45
         2
           *****
333
     53
           ********
351
     37
         2
           ******
369
     50
           *******
         3
387
     41
         2
           ******
405
     47
         3
           *********
423
     44
         2
           *****
441
     68
          ***********
         /1
459
     41
           ******
477
     48
         3
           ******
495
     42
         2
           ********
513
     60
           ******
531
     55
           ******
549
     50
         3
          ******
     59
567
           ******
         3
585
     53
        3
           ********
603
     35
           *****
621
     35
          ******
639
     25
        1
           *****
657
     14
          ****
675
     12
        1
693
     2
        n
711
      0
```

NO. OF SAMPLES OVER 720 = 2 NO. OF SAMPLES HNDER 0 = 0 TOTAL NO. OF OBSERVATIONS = 1822 SAMPLE INTERVAL = 10 MINHTES

#### HISTOGRAM OF DIRECTION

# HOWE SOUND HS-5N DEPTH 5M. START DATE 23/01/73

```
MEDIAN FREGINCY
                  40
                         8.0
                               120
                                     160
(DEG.T) NO. PCT .
  5
    144
         8
           **********
  15
     163
         9
           ***********
  25
     127
         7 **************
     53
  35
         3
           ********
  45
     41
         2
  55
     33
         2
           *****
  65
     85
           *****
  75
     19
         1
  85
      14
         1
 95
     20
         1
 105
     2.0
         1
           ****
      29
 115
           *****
 125
     2.0
         1
 135
      85
         2
           ****
     45
 145
           ******
 155
     65
         4 **********
      93
 165
         5
            *********
 175
      87
         5
     67
 185
         4
           ******
     86
 195
         5
           *******
     72
 205
         4 ***********
 215
     53
         3
 225
      52
         3
           *****
 235
     53
         3
           *****
      54
 245
         3
           *******
 255
     44
         *******
      18
 265
           ****
 275
     1.5
           ***
         1
     20
 285
         1
     18
 295
         1
 305
     1.0
         1
      7
         () **
 315
 325
     1.4
         1
           ****
 335
     32
         2
           *****
     56
 345
         3
           *****
    122
 355
         7
           *********
 365
      0
         0
 375
      0
         0
 385
      0
 395
      0
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 1822
SAMPLE INTERVAL = 10 MINUTES

#### HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH SM. START DATE 23/01/73

```
250
MEDIAN FREGINCY
                      50
                             100
                                      150
                                              200
(DFG.C) NO. PCT .
4.84
       0
4,92
        0
5.00
       15
           1
              * * *
5.08
       29
           2
              ****
       25
5.16
           1
5.24
       23
              ****
           1
       24
5,32
              ****
           1
       18
5.40
            1
              ***
       25
5.48
           1
              ***
5.56
       14
           1
       27
              ****
5.64
           1
5.72
           3
       50
              ******
5.80
      148
           -8
              ********
5.88
      190
           1.0
              *******
5.96
      194
           1.1
              **********
6.04
      198
              ************
           1.1
6.12
      80
           4
              *********
6.20
      44
            2
              *****
6.28
       37
            2
              *****
6.36
       18
           1
6.44
       6
           0
6.52
       4
            0
       25
6.60
            1
              ***
6,68
       32
            5
              ****
6,76
       38
            2
              *****
6.84
       12
              * *
           1
6.92
       5
           0
7.00
       5
            0
7,08
       15
            1
              ***
7.16
       19
            1
              ***
7.24
       43
            5
              *****
7.32
       27
           1
       55
 7.40
           3
              *****
 7.48
       91
           5
              ******
 7.56
      120
           7
              ********
      64
 7.64
           4
              ******
7.72
       62
           3
              *****
7.80
       37
            2
              *****
7,88
        Q
           0
              ++
 7.96
       ()
```

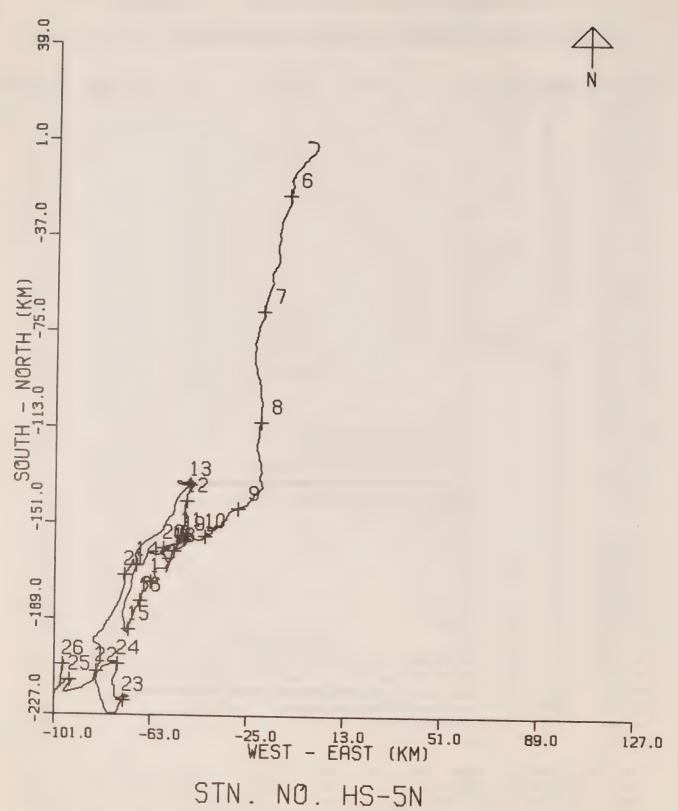
NO. OF SAMPLES OVER 8.00 = 0
NO. OF SAMPLES UNDER 4.80 = 0
TOTAL NO. OF OBSERVATIONS = 1822
SAMPLE INTERVAL = 10 MINUTES

# HISTOGRAM OF SALINITY

HOWE SOUND HS-5N DEPTH 5M. START DATE 23/01/73

```
MEDIAN
        FREGINCY
                         60
                                 120
                                           180
                                                    240
                                                              300
(PPT)
        NO. POB
55.20
          3
             0
22.40
          3
             0
22.60
          4
22.80
         7
             0
23.00
         6
23.20
         1.0
             1
23.40
         17
23,60
        19
23.80
        11
24.00
        12
                * *
24.20
        17
             1
                * * *
24.40
        12
             1
                * *
24.60
        13
             1
                * *
24,80
        11
             1
                * *
25,00
         4
             0
25,20
        10
             1
25,40
        13
             1
                * *
25.60
        25
             1
                ****
25,80
        39
             2
                ****
26,00
        71
             4
                *****
26,20
       103
                ******
26.40
       115
                ******
             6
26.60
       155
             9
                *******
26.80
       179
                ********
            1.0
27,00
       123
             7
                ********
27.20
        91
             5
                ******
27,40
       43
             2
                *****
27.60
        26
             1
                ***
27.80
        18
             1
                ***
28,00
        12
             4
                * *
05,85
        18
28.40
        42
             2
                ****
28,60
        38
                ****
             2
28,80
        21
             1
                ***
29,00
        43
             2
                *****
29.20
        A4
             5
29.40
       216
            12
                *********
29.60
       123
             7
                ******
29,80
       57
             3
                *****
30.00
        11
             1
```

NO. OF SAMPLES OVER 30.10 = 0 NO. OF SAMPLES UNDER 22.10 = 0 TOTAL NO. OF OBSERVATIONS = 1822 SAMPLE INTERVAL = 10 MINUTES



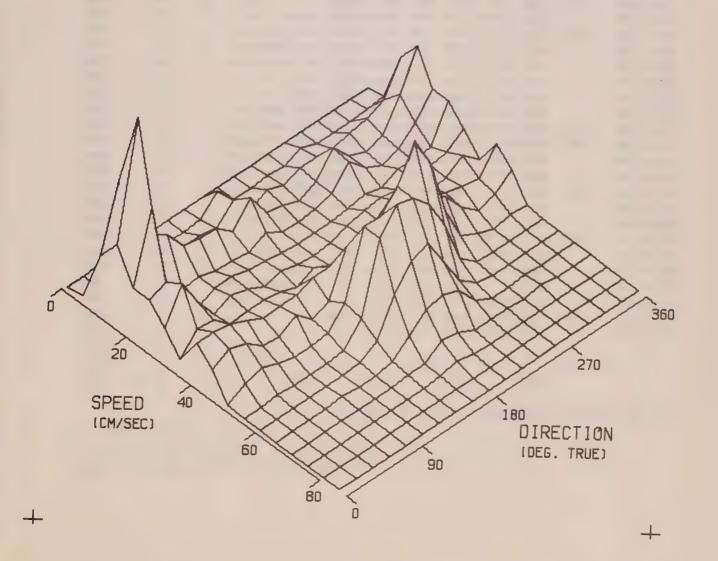
DEPTH 5 M.

STARTING DATE: 5/ 2/73 ENDING DATE: 26/ 2/73

+

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N DEPTH 5 M. STARTING DATE: 5/2/73 NO. OF SAMPLES = 3000



STN. NO. HS-5N DEPTH 5 M.

STARTING DATE: 5/ 2/73 SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

#### SPEED

	000	080	160	240	320	400	480	560	640	720	800	880	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
0-14	005	067	053	033	016	024	001						196
15- 29		104	100	043	021	025	005						298
30= 44	001	048	034	027	027	027	005						166
45= 59		031	009	010	014	015	009						88
60- 74	001	850	010	012	012	016	002						81
75- 89		013	011	008	011	011	001		001				56
90-104		011	009	012	011	015	002						60
105-119		020	010	010	011	014	500						67
120-134		006	005	003	007	010	006	001					38
135-149		006	006	007	006	016	019	011	001				72
150-164	010	024	011	002	013	028	050	031	004	001			174
165=179	003	008	003	005	009	043	064	045	012	003			195
180-194	C - 1.0	005	002	003	007	023	083	056	009	003			191
195-209		006	001	003	009	038	084	055	014	003			213
210-224	001	001	002	004	014	050	076	055	004	003			207
225-239	0.01	004	001	006	015	060	078	950					
240=254		014	009	011	013				004				194
255=269	004	013	019	008		075	047	010	001				180
270=284	() () W				024	038	025	004					135
		002	009	003	017	031	007						69
285=299		009	009	010	007	016	004						55
300=314		005		007	510	013	001		002	001			41
315=329		010	600	011	010	010							49
330-344	001	053	014	008	014	010	001						71
345-359		026	024	023	019	011	001						104
	23		359		319		570		52		0		3000
		484		269		619		294		1.1		0	

NO' OF SPEEDS EXCEEDING 960 MM/SEC = 0

#### HISTOGRAM OF SPEED

HOWE SOUND HS-5N DEPTH 5M. START DATE 05/02/73

```
MEDIAN
     FREGINCY
                 50
                       100
                              150
                                     200
                                           250
(MM/S)
     NO. PCT
 1.0
      0
         0
 30 '
      0
         0
 50
      9
         0
           **
 70
      14
         0
 90
     46
           *****
 110
     147
 130
     154
           *********
 150
     137
         5
           ******
 170
     148
           ********
 190
     96
         3
           ******
 210
     71
         2
 230
     59
         2
           *******
 250
     53
           *****
 270
     55
 290
     68
           ******
 310
     78
         3
           *****
 330
     72
           *****
 350
     65
           ******
 370
     96
           *******
 390
     114
           *******
 410
     121
           ******
 430
     134
           *******
 450
     176
           ********
         6
 470
     160
           *******
 490
     171
           **********
510
     169
           *******
530
     132
           *******
550
     122
           *****
570
     102
         3
590
     78
           *****
         3
610
     46
           ******
630
     44
650
     25
           ***
670
     16
         1
           ***
690
      9
         0
710
      7
         0
730
      7
         0
750
      0
         0
770
      2
         0
790
      0
         0
```

NO. OF SAMPLES OVER 800 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES

#### HISTOGRAM OF DIRECTION

#### HOWE SOUND H8-5N DEPTH 5M. START DATE 05/02/73

```
MEDTAN
    FREQINCY
              40
                    80
                         120 160
                                     200
(DEG.T) NO. PCT .
  5
    130
       4
        ********
 15
         **********
    191
 25
    193
       6 **************
 35
    110
       4
        ********
 45
    79
       3 **********
 55
     53
       2
         *****
 65
     51
         ********
 75
    42
         *****
    42
 85
         *****
 95
    40
       1
         *****
 105
    42
       1
         ******
 115
    39
       1
         ******
    25
 125
       1
         ****
    33
 135
       1
         *****
145
    59
       2
         ******
155
    107
         ******
 165
    155
       5
         **********
175
    120
         *******
185
    126
         *******
195
    124
         ********
205
    142
       5
         *********
215
    139
       5
         *********
225
    137
       5
        **********
235
    129
         *********
245
    125
         ********
255
    99
       3
         ******
265
    85
       3
         *****
275
    49
       2
         *****
285
    39
         *****
295
    34
         *****
305
    33
         ****
315
    20
       -1
325
    38
         *****
335
    46
       2
         *****
345
    57
       5
         *****
355
    67
       2
         *****
365
     0
       0
375
     0
       0
385
     0
       0
395
     0
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES

### HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 5M, START DATE 05/02/73

```
MEDIAN
       FREGINCY
                        90
                                180
                                         270
                                                  360
                                                            450
(DEG.C)
       NO, PCT .
5.62
         0
            0
5.66
         0
            0
5.70
         0
            0
5.74
         0
            0
5,78
         0
            0
5.82
         0
            0
5.86
         5
            0
5.90
         6
            0
5.94
         5
            0
5,98
         5
            0
6.02
        4
            0
6.06
        25
            1
6.10
        33
            1
6.14
        45
            2
6.18
        37
            1
6.22
        45
            2
               ****
6.26
        37
            1
6.30
        99
            3
               *****
6.34
       189
            6
               *******
6.38
       405
           14
               ***********
6.42
       345
           12
               **********
6.46
       175
           6
6.50
               ********
       321
           11
6.54
       197
            7
               ******
6.58
       133
            4
6,62
       73
            2
               *****
6.66
       175
            6
               *********
6.70
       88
            3
               *****
6.74
       87
            3
               *****
6.78
       47
            2
               ****
6,82
       59
            2
               *****
6.86
       14
            0
               **
6,90
       42
            1
               ***
6.94
       89
            3
               *****
6,98
       39
            1
7.02
       82
            3
               *****
7.06
       65
            2
               ****
7,10
       24
            1
               ***
7.14
        6
            0
7.18
        2
            0
```

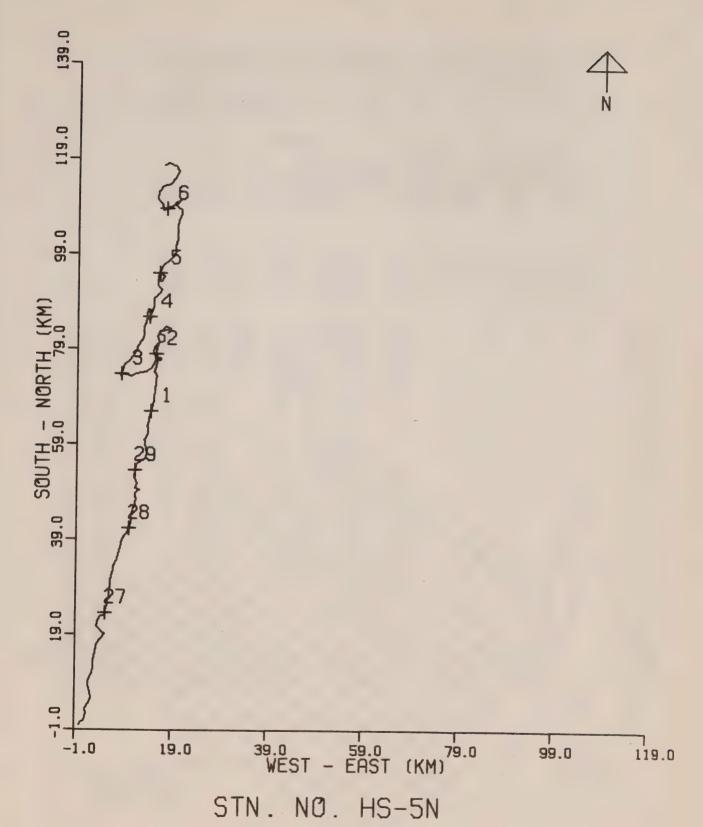
NO. OF SAMPLES OVER 7.20 = 0
NO. OF SAMPLES UNDER 5.60 = 0
TOTAL NO. OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES

#### HISTOGRAM OF SALINITY

HOWE SOUND HS=5N DEPTH 5M. START DATE 05/02/73

```
MEDIAN
      FREGINCY
                    80
                            160
                                    240
                                            320
                                                    400
      NO. PCT
(PPT)
                                    .
26.05
        1
           0
26.15
        1
           0
26,25
        1
           0
26.35
        5
           0
26.45
        4
           0
26,55
        3
           0
26.65
       4
           0
26,75
       6
           0
26,85
       5
           0
26,95
       20
           1
             黄黄素
27.05
       23
27,15
       85
           1
27.25
       40
           1
27,35
       75
           3
             *****
27.45
      94
             *****
           3
27,55
     121
           4
             *******
             *****
27,65
     160
           5
27.75
      197
           7
             ********
27.85
      178
             *******
           6
27,95
      245
             ********
           8
28.05
      247
             *******
           8
28.15
      297
             **********
          10
28,25
      242
          8
             ******
28,35
      168
             ******
           6
28,45
      169
             *********
           6
28,55
      100
           3
28.65
     71
           2
             *****
28,75
       61
           2
28,85
             *****
      56
           2
28.95
       55
           2
             ****
29,05
       26
           1
29,15
      24
           1
             **
29,25
      95
           3
             *****
29,35
      138
           5
             *****
29.45
      40
             ****
           1
29.55
       3
           0
29,65
       0
           0
29,75
       0
           0
29.85
       0
           0
29.95
```

NO. OF SAMPLES OVER 30.00 = 0
NO. OF SAMPLES UNDER 26.00 = 0
TOTAL NO. OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES



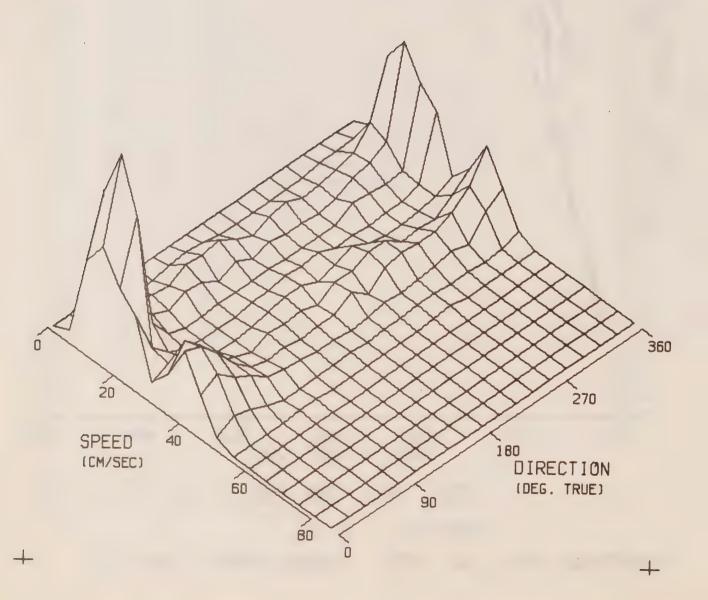
DEPTH 5 M.

STARTING DATE: 26/ 2/73 ENDING DATE: 6/ 3/73

+

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N DEPTH 5 M. STARTING DATE: 26/ 2/73
NO. OF SAMPLES = 1367



STN. NO. HS-5N DEPTH 5 M.

STARTING DATE: 26/ 2/73 SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

#### SPEED

	70	080	160	240 TO	320		480			720	800	880	
DIR		159			399	10		639	70	TO	70 879	TO	
G/ & 11		6.37	534	347	377	4/4	234	037	117	777	0/4	424	
0 = 14	004	076	100	022	027	027	003						259
15- 29	001	132	072	017	035	040	009						306
30- 44	007	027	018	008	037	019	004						120
45- 59	200	016	005	006	010	022	003						64
60- 74		011		005	007	015	002						37
75= 89	002	004			002	007							15
90-104		005	001		001	004	001						12
105-119	001	016	001		005	005							25
120-134	001	005		001	003	200							12
135=149	003	005	001	004	003	001							17
150=164	004	009		004	005	005	001						25
165-179	001	0.0-8	001	006		001							17
180-194		002	002	009	004	003							20
195-209		200		001	007	004	001						15
210=224		004		007	008	001	001						21
225=239		001		005	009	006							18
240=254	001	008		007	011	009	004						40
255-269				005	012	005	003						55
270-284		001		001	008	008							19
285-299		008	009		007	004	001						29
300-314	002	003	007	001	007	010	001						31
315-329	001	013	004	005	005	010							35
330-344	006	020	008	004	019	014	001						72
345=359		043	019	017	019	038							136
	7.		9/16		m // 6		7 5						4 77 4 15
	36	// 1.0	249	127	248	267	35	0	0	•	0	•	1367
		419		123		257		0		Ô		0	

NO' OF SPEEDS EXCEEDING 960 MM/SEC # 0

HISTOGRAM OF SPEED

HOWE SOUND HS-5N DEPTH 5M. START DATE 26/02/73

```
MEDIAN
      FREQINCY
                   30
                           60
                                   90
                                          120
                                                 150
(MM/S)
      NO. PCT .
  7
       0
          0
  21
       0
          Ô
  35
       1
          0
  49
  63
      14
          1
            ***
 77
      32
           *******
 91
      74
            *******
 105
      75
          5
            *******
 119
     97
            *********
 133
      61
 147
      85
           ******
 161
      53
 175
      34
 189
      68
          5
            ******
 203
      44
          3
 217
      45
          3
            *****
 231
      20
          1
 245
      24
 259
      25
            ****
 273
      19
287
      18
301
      15
          1
315
      85
            ****
          2
329
      42
          3
            *****
343
      36
          3
            *****
357
      53
            ******
371
      37
          3
385
      57
            ******
          4
399
      52
          4
413
      52
            ******
427
      66
          5
            *******
441
      36
455
      39
            ******
          3
469
      25
483
      12
497
      10
            ***
511
      8
            ***
525
      7
         1
            * *
539
      2
         0
553
      0
         0
```

NO. OF SAMPLES OVER 540 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 1367
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

# HOWE SOUND HS-5N DEPTH 5M. START DATE 26/02/73

```
MEDIAN
       FREGINCY
                         50
                                 100
                                          150
                                                    200
                                                              250
(DEG.T) NO. PCT
   5
       183
           13
                南京安全市市市市市市市市市市市市市市市市市市市市市市市市市市市市市
  15
       233
            17
                25
       159
            12
                ********
  35
        83
             6
  45
        60
                *******
  55
        36
             3
  65
        24
             2
  75
        16
             1
                ***
  85
        8
             1
  95
         7
             1
 105
        11
             1
 115
        23
             2
                ***
 125
        6
             0
 135
        10
             1
        12
 145
 155
        14
                ***
        19
 165
             1
                ****
 175
        5 -
             0
 185
        12
                **
 195
        15
                ***
 205
        9
                **
             1
 215
        15
                ***
 225
        10
             1
               **
 235
        14
             1
 245
        26
             2
               ****
 255
        21
             2
               ***
 265
        14
 275
        15
            1
 285
        16
            1
 295
        20
             1
               ****
 305
        23
            2
 315
        16
 325
        31
            2
 335
       48
               ******
 345
       49
            4
               ******
 355
       104
            8
        0
 365
            0
 375
        0
            0
 385
        0
            0
 395
        Ò
            0
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 1367
SAMPLE INTERVAL = 10 MINUTES

#### HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 5M. START DATE 26/02/73

```
MEDIAN
        FREGINCY
                          70
                                   140
                                             210
                                                       280
                                                                 350
(DEG.C) NO. PCT
6.41
          0
              0
 6.43
          0
              0
 6.45
          0
              0
 6.47
          0
             0
 6.49
         1
             0
         2
 6.51
             0
6.53
        16
             1
6.55
        65
             5
6.57
        38
             3
6.59
        69
             5
                 ******
        55
6.61
             4
                 ****
6,63
        0
             0
6.65
        93
             7
                ******
6.67
       140
             10
6.69
       278
            20
                6.71
            24
       322
                ************
6,73
       855
            17
                *********
6.75
        35
             3
6.77
         4
             0
6.79
         0
             0
         3
6.81
             0
6.83
         5
             0
6.85
         2
             0
6.87
         1
             0
6.89
         2
             0
6,91
         1
             0
6,93
         1
             0
6,95
         0
             0
6,97
         0
             0
6,99
         4
             0
7.01
         1
             0
7,03
         0
             Ô
7.05
         1
             0
7.07
         0
             0
7.09
         0
             0
7,11
         0
             0
7,13
         n
             0
7,15
         0
             0
7.17
         0
             0
7.19
         0
             0
```

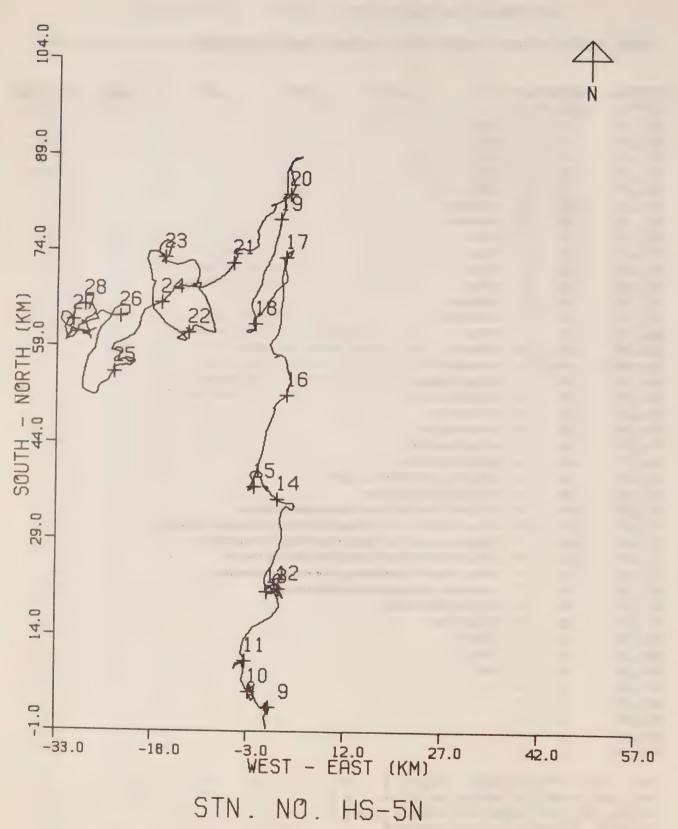
NO. OF SAMPLES OVER 7.20 = 0
NO. OF SAMPLES UNDER 6.40 = 0
TOTAL NO. OF OBSERVATIONS = 1367
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-5N DEPTH 5M. START DATE 26/02/73

```
MEDIAN
        FREGINCY
                        40
                                 80
                                          120
                                                   160
                                                            200
(PPT)
        NO. PCT
24.85
             1
24.95
         6
             0
25.05
         6
             0
25,15
        10
25,25
         7
25,35
        55
             2
25,45
        19
             1
25.55
        10
             1
                **
25,65
        11
             1
                ***
25,75
        16
             1
                ***
25,85
        12
             1
                **
25,95
        18
             1
                ****
26.05
        55
             5
26,15
        14
             1
26,25
        21
             2
                ***
26,35
        19
             1
                ****
26.45
        30
             2
                ******
26,55
        37
             3
                *****
26,65
        27
             2
                *****
26.75
        33
             2
                ****
26,85
        36
             3
                ******
26.95
        45
             3
                *****
27.05
        72
             5
                *******
27,15
        54
             4
               *****
27,25
               *******
       106
             8
27,35
       141
               ********
            10
27.45
       126
               *********
             9
27.55
       111
               *********
             8
27,65
       119
               ********
27.75
        92
            7
               ******
27,85
        46
            3
               *******
27,95
        26
            2
28.05
        17
               ***
            1
28,15
        16
            1
               ***
28,25
        8
            1
               食食
28,35
         0
            0
28,45
         1
            0
28,55
         0
            0
28,65
         0
            0
28.75
         0
            0
```

NO. OF SAMPLES OVER 28.80 = 0 NO. OF SAMPLES UNDER 24.80 = 3 TOTAL NO. OF OBSERVATIONS = 1367 SAMPLE INTERVAL = 10 MINUTES



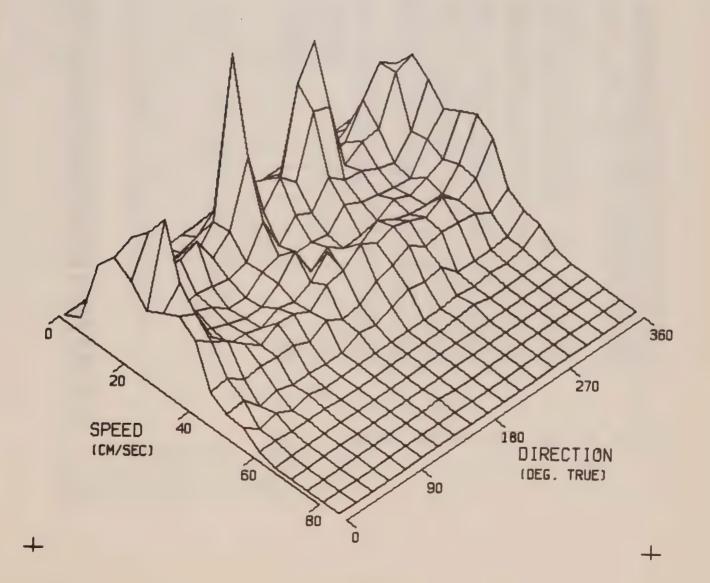
DEPTH 5 M.

STARTING DATE: 8/ 3/73 ENDING DATE: 28/ 3/73

+

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N DEPTH 5 M. STARTING DATE: 8/3/73
.NO. OF SAMPLES = 2879



STN. NO. HS=5N DEPTH 5 M.

STARTING DATE: 8/ 3/73 SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

000 080 160 340 320 400 480 560 640 720 800 880

## SPEED

DIR		70	080	100	240	320	400	480	560	640	720	800	880	
0- 14	n tn		TO	TO	70	10	TO	TO	10	TO	TO	TO	TO	
15= 29	DIK	0/9	137	634	314	377	4/9	227	034	714	744	6/9	454	
15= 29	0= 14	500	043	059	051	044	035	016						250
30= 44  007 032 019 026 022 013 004 003  126 45= 59  003 035 013 014 015 013 001 001 95 60= 74  002 024 013 017 010 018 005 002 91 75= 89  002 019 009 010 010 009 001 60 9=104  001 025 010 003 011 017 105=119  001 016 012 009 009 011 1 58 120=134  003 014 006 009 010 010  010 52 135=149  006 030 008 009 013 010								-	0.01					
45= 59			4 40	-										
60= 74								W W						
75= 89	100			-										
90=104 001 025 010 003 011 017 105=119 001 016 012 009 009 011 58 120=134 003 014 006 009 010 010 135=149 006 030 008 009 013 010 150=164 016 108 026 024 014 011 003 001 165=179 003 051 020 014 020 013 001 180=194 002 017 008 007 017 013 005 195=209 003 041 023 012 011 025 001 210=224 024 013 008 018 017 007 225=239 001 014 018 012 020 016 006 240=254 013 123 031 017 027 029 004 001 245=259=269 072 029 008 020 016 006 270=284 002 016 014 017 010 016 285=299 004 015 015 010 016 025 002 315=329 007 031 012 011 012 015 300=314 004 026 030 023 020 008 002 001 345=359 007 031 012 011 012 015 388 330=344 004 046 030 023 020 008 002 001 345=359 005 057 031 029 032 024 004 002								000						
105=119									001					
120=134														
135=149       006       030       008       009       013       010       76         150=164       016       108       026       024       014       011       003       001       203         165=179       003       051       020       014       020       013       001       122         180=194       002       017       008       007       017       013       005       69         195=209       003       041       023       012       011       025       001       116         210=224       024       013       008       018       017       007       87         240=254       013       123       031       017       027       029       004       001       245         255=269       072       029       008       020       018       009       002       158         270=284       002       016       014       017       010       016       25       002       87         300=314       004       022       018       012       013       020       89         315=329       007       031       012       0					-									
150=164			-											
165=179       003       051       020       014       020       013       001       122         180=194       002       017       008       007       017       013       005       69         195=209       003       041       023       012       011       025       001       116         210=224       024       013       008       018       017       007       87         225=239       001       014       018       012       020       016       006       87         240=254       013       123       031       017       027       029       004       001       245         255=269       072       029       008       020       018       009       002       158         270=284       002       016       014       017       010       016       75         285=299       004       015       015       010       016       025       002       87         315=329       007       031       012       011       012       015       88         330=344       004       046       030       023       024       0	_							003			001			
180=194       002 017 008 007 017 013 005       69         195=209       003 041 023 012 011 025 001       116         210=224       024 013 008 018 017 007       87         225=239       001 014 018 012 020 016 006       87         240=254       013 123 031 017 027 029 004 001       245         255=269       072 029 008 020 018 009 002       158         270=284       002 016 014 017 010 016       75         285=299       004 015 015 010 016 025 002       87         300=314       004 022 018 012 013 020       89         315=329       007 031 012 011 012 015       88         330=344       004 046 030 023 020 008 002 001       134         345=359       05 057 031 029 032 024 004 002       184						, -					001			
195=209       003 041 023 012 011 025 001       116         210=224       024 013 008 018 017 007       87         225=239       001 014 018 012 020 016 006       87         240=254       013 123 031 017 027 029 004 001       245         255=269       072 029 008 020 018 009 002       158         270=284       002 016 014 017 010 016       75         285=299       004 015 015 010 016 025 002       87         300=314       004 022 018 012 013 020       89         315=329       007 031 012 011 012 015       88         330=344       004 046 030 023 020 008 002 001       134         345=359       005 057 031 029 032 024 004 002       184							-							
210=224			-											
225-239		003												
240-254 013 123 031 017 027 029 004 001 245 255-269 072 029 008 020 018 009 002 158 270-284 002 016 014 017 010 016 75 285-299 004 015 015 010 016 025 002 87 300-314 004 022 018 012 013 020 89 315-329 007 031 012 011 012 015 88 330-344 004 046 030 023 020 008 002 001 134 345-359 005 057 031 029 032 024 004 002 184		0.01												
255-269									001					
270-284 002 016 014 017 010 016 75 285-299 004 015 015 010 016 025 002 87 300-314 004 022 018 012 013 020 89 315-329 007 031 012 011 012 015 88 330-344 004 046 030 023 020 008 002 001 134 345-359 005 057 031 029 032 024 004 002 184		013	-											
285-299 004 015 015 010 016 025 002 87 300-314 004 022 018 012 013 020 89 315-329 007 031 012 011 012 015 88 330-344 004 046 030 023 020 008 002 001 134 345-359 005 057 031 029 032 024 004 002 184		002						007	UUE					
300-314								002						
315-329 007 031 012 011 012 015 330-344 004 046 030 023 020 008 002 001 345-359 005 057 031 029 032 024 004 002 184 96 514 427 78 0 0 2879								002						
330=344 004 046 030 023 020 008 002 001 345=359 005 057 031 029 032 024 004 002 184 96 514 427 78 0 0 2879														
345=359     005 057 031 029 032 024 004 002     184       96     514     427     78     0     0     2879								003	001					
96 514 427 78 0 0 2879								.,						
	7474777	009	09/	0.31	024	() 3 %	024	004	002					184
		96		514		427		78		0		٥		2870
			914		427		408	4 707	14	•	1	,	0	4.917

NO' OF SPEEDS EXCEEDING 960 MM/SEC # 0

### HISTOGRAM OF SPEED

## HOWE SOUND HS.5N DEPTH 5M. START DATE 08/03/73

```
240
MEDIAN
      FREGINCY
                      6.0
                             120
                                      180
                                                       300
(MM/S)
      NO. PCT .
  8
        0
           0
  24
        1
           0
  40
           0
        6
       34
  56
            1
  72
       55
  88
      132
              ******
      199
           7
 104
              *********
 120
      235
      200
            7
              ********
 136
 152
      148
      124
              ******
 168
 184
      106
            4
              **********
 200
      107
       97
            3
 216
              *****
       97
 232
            3
              *****
 248
       76
            3
 264
       84
            3
       66
            2
 280
 296
       84
            3
              ******
 312
       100
            3
              ******
 328
       78
            3
 344
      107
            4
              *********
       76
            3
 360
       88
 376
            3
              *****
       108
              **********
 392
 408
       83
            3
 424
       106
              ******
       89
            3
 440
       54
 456
            2
 472
       46
              *****
 488
       26
 504
       20
            1
              **
 520
       17
            1
        7
            0
              *
 536
        9
            0
              **
 552
        3
 568
            0
 584
        8
            0
 600
        1
            0
 616
        1
            0
 632
        0
            0
```

NO. OF SAMPLES OVER 640 = 1 NO. OF SAMPLES UNDER 0 = 0 TOTAL NO. OF OBSERVATIONS = 2879 SAMPLE INTERVAL = 10 MINUTES

#### HISTOGRAM OF DIRECTION

HOWE SOUND HS+5N DEPTH 5M, START DATE 08/03/73

```
MEDIAN FREGINCY
              40
                    80
                         120 160
                                     500
(DEG.T) NO. PCT .
         **********
 5
    181
 15
    184
         ************
 25
    154
        5
         **********
 35
    85
        3 ************
 45
     72
        3
         *********
     60
 55
 65
     57
         ******
 75
     50
        2
 85
     45
        2
         *****
 95
         *****
     40
        1
 105
     48
        2
 115
     38
        1
         *****
 125
     85
         ****
        1
 135
     47
        2
         ******
     54
 145
        2
         ******
 155
    138
         ********
 165
    114
         *******
        4
 175
    71
        2
         *****
 185
     46
        2
         ******
 195
     60
        2
         *****
 205
     81
        3
         *****
 215
     63
        2
         *****
 225
     54
        2
         *****
    . 55
 235
        2
 245
    178
         ***************
 255
    134
        5
         ********
 265
     85
        3
 275
     57
         *****
        2
 285
     55
        2
         *********
 295
     56
        2
         ********
305
     57
        2
         ******
315
    58
        2
         ******
325
     66
         ******
335
    8.8
       3
345
    108
         **********
355
    112
         ********
365
     0
       0
375
     0
385
     0
395
     0
       0
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2879
SAMPLE INTERVAL = 10 MINUTES

600

## HISTOGRAM OF TEMPERATURE

## HOWE SOUND HS-5N DEPTH 5M. START DATE 08/03/73

```
MEDIAN
        FREGINCY
                           120
                                      240
                                                360
                                                           480
(DEG.C)
        NO. PCT
                                       .
 6.22
          0
               0
 6,26
           0
               0
 6,30
          0
               0
 6.34
          0
               0
 6.38
          0
 6.42
          0
               0
 6.46
          0
               0
 6.50
          0
               0
 6.54
          3
               0
6.58
          5
               0
          3
6.62
               0
6.66
          2
               0
6.70
          3
               0
6.74
        120
6.78
        100
               3
6.82
        129
              4
6.86
         56
6.90
        142
              5
6.94
        161
              6
                  *******
6.98
        178
              6
7.02
        539
             19
7.06
        429
             15
                  ******
7.10
        346
             12
                  *******
7.14
        102
              4
7.18
        178
              6
                  *****
7,22
        159
              6
                  *****
7,26
         77
              3
7.30
         32
              1
7,34
         24
              1
7.38
         15
              1
7.42
         11
              0
7.46
         8
              0
7.50
         12
              0
7.54
         17
              1
7,58
         11
              0
7.62
          5
              0
7.66
          3
              0
7.70
          7
              0
7.74
          2
              0
7.78
              0
```

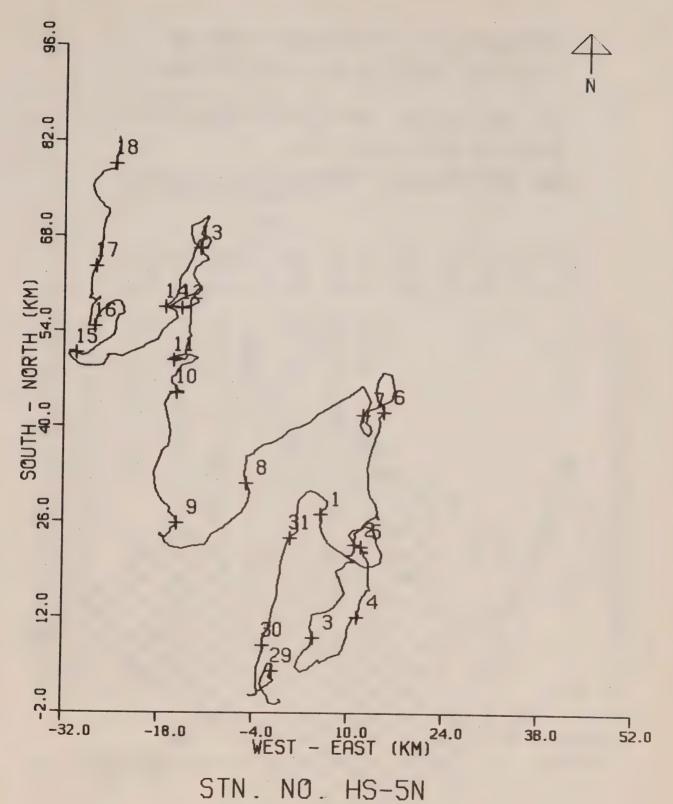
NO. OF SAMPLES OVER 7.80 = 0 NO. OF SAMPLES UNDER 6.20 = 0 TOTAL NO. OF OBSERVATIONS = 2879 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-5N DEPTH 5M. START DATE 08/03/73

```
MEDTAN
     FREGINCY
                3.0
                      60
                            90
                                        150
(PPT)
     NO. PCT
23.17
      11
          ***
         0
23,31
      Q
          ***
         0
23,45
      21
         1
          ****
23,59
      33
         1
          *******
23.73
      42
          *****
         1
23.87
      50
         2
          ******
24.01
      41
          *********
24,15
     58
        2
          ******
24.29
     37
          *******
        1
24,43
     33
        1
          *******
24,57
     42
        1
          *****
24.71
     50
          ******
        2
24.85
     46
          ******
24.99
     66
          *******
25,13
     7 1
        2
          *****
25.27
     63
        2
          *****
25,41
     93
        3
          *******
25.55
     114
          25,69
     109
          *************
25,83
     83
        3
          *****
25.97
     1.05
          ·农宾业类北美农农农农大农农大农农大农大农农农农农农农农农农农农农农
        4
26.11
          ********
     103
26.25
     88
        3
          *******
26.39
     81
          *******
        3
26.53
     112
          *****************
        4
26.67
    102
          次大夫女女女女女女女女女女女女女女女女女女女女女女女女女女女
26.81
     95
          ******
        3
26,95
    105
          ***********
27.09
    103
          ********
        4
27.23
    110
          *********
27.37
    128
          27.51
    113
          4
27,65
     83
        3
          *****
27.79
     95
          ********
        3
27,93
     85
        3
          ************
28.07
     81
        3
          *****
15,85
     50
        2
          ******
28,35
     64
        2
          *******
28,49
     59
          *****
28.63
     12
```

NO. OF SAMPLES OVER 28.70 = 0
NO. OF SAMPLES UNDER 23.10 = 33
TOTAL NO. OF OBSERVATIONS = 2879
SAMPLE INTERVAL = 10 MINUTES



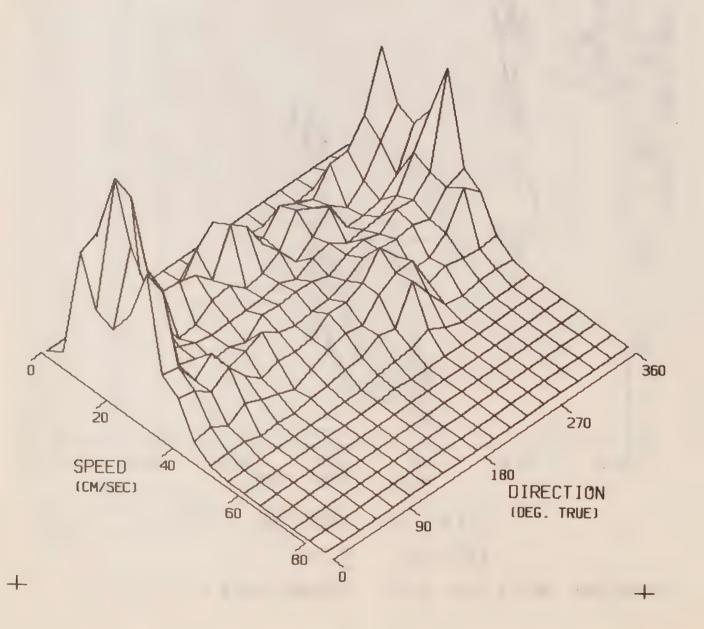
DEPTH 5 M.

STARTING DATE: 28/ 3/73 ENDING DATE: 18/ 4/73

+

## FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N DEPTH 5 M. STARTING DATE: 28/ 3/73
NO. OF SAMPLES = 3000



STN. NO. HS-5N DEPTH 5 M.

STARTING DATE:28/ 3/73 SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

## SPEED

	000	080	160		350	400	480	560	640	720	800	880	
_	TO												
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
0-14	009	095	065		037	_	001						334
15= 29	005	111	088	061	038	018	003						324
30- 44	005	080	043	028	018	010	005						183
45- 59	001	045	040	023	032	010	001						152
60= 74	002	042	021	017	023	017							122
75= 89	001	021	011	010	017	008							68
90-104	002	053	013	017	011	007							73
105-119		026	016	007	012	004	001						66
120-134	001	018	015	014	021	004	002						75
135=149	001	024	021	015	015	006	001						83
150=164	002	045	012	016	006	008	003						92
165-179		032	019	017	018	008	006						100
180-194		018	019	020	020	015	006	001					99
195-209		009	016	015	015	014	007	001					77
210=224	001	009	009	011	150	021	009						81
225-239	001	003	016	019	024	032	020						115
240-254	001	043	016	023	027	033	150	200					166
255-269		012	021	019	029	021	013						115
270-284		009	006	015	017	013	200						62
285=299		013	008	024	019	011	001						76
300-314	004	052	007	017	025	010	002						87
315-329	003	027	010	027	017	013	002						99
330-344	003	042	026	038	038	011	002						160
345-359	004	049	025	055	034	055	002						191
	43		543		534		107		0		0		3000
		818		620		331		4		0		0	

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 0

#### HISTOGRAM OF SPEED

## HOWE SOUND HS-5N DEPTH 5M. START DATE 28/03/73

```
MEDIAN
     FREGINCY
                 50
                       100
                             150
                                    200
                                           250
(MM/S)
     NO. POT
  8
      0
         Ô
 24
      0
         0
 40
      0
         Ö
 56
     6
 72
     37
         1
 88
     90
         ኚ
 104
     175
           *********
         6
 120
           **********
     188
         6
 136
     200
           ***********
 152
     165
           ***********
 168
     137
         5
           *********
 184
     121
        4
           ********
 200
     106
           ******
        4
 216
     99
        3
           *****
 232
     105
           ********
 248
     83
        3
           ******
 264
     108
        4
          ******
 085
    123
          ******
 296
     135
          ********
 312
     146
          *********
        5
 328
    101
        3
          ******
 344
    122
          ******
        4
 360
    110
        41
          ******
376
    118
        Δ
          *******
392
    109
        4
          *****
408
     54
        7
          *****
424
     81
        3
          *******
440
     69
        2.
          *****
456
     4A
          *****
472
     53
          ******
488
     39
          *****
504
     36
520
     20
        1
          ***
536
      8
        0
          * *
552
      5
568
      2
584
      ۵
600
      1
616
      0
632
```

NO' OF SAMPLES OVER 640 = 0
NO' OF SAMPLES UNDER 0 = 0
TOTAL NO OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 5M' START DATE 28/03/73

```
MEDTAN
      FREGINCY
                    60
                           120
                                  180 - 240
                                                  300
(DEG.T) NO. PCT
   5
      224
             南州西南南南南南南南南南南南南南南南南南南南南南南南南南南南南南南
  15
      272
             25
      173
             *****
  35
      132
            ****
  45
      101
          3
  55
      99
  65
      80
          3
             *******
  75
      62
          2
  85
      46
 95
      49
          2
             *****
 105
      44
          1
 115
      46
 125
      47
 135
      51
 145
      59
 155
      63
            *****
 165
      76
          3
 175
      56
          2
 185
      66
          2
 195
      56
            *****
205
      53
215
      48
225
      62
          2
            *****
235
      88
            *****
          3
245
     111
            ******
255
     106
          4
            *****
265
      59
275
      45
            *****
285
      45
            *****
295
     52
            ******
305
      55
          2
            *****
315
      57
          2
325
      72
          2
            *****
335
     104
          3
345
     115
            ******
355
     126
          4
            *******
365
      0
         0
375
      0
         0
385
      0
395
```

NO, OF SAMPLES OVER 400 = 0 NO. OF SAMPLES UNDER 0 = 0 TOTAL.NO. OF OBSERVATIONS = 3000 SAMPLE INTERVAL = 10 MINUTES

### HISTOGRAM OF TEMPERATURE

## HOWE SOUND HS-SN: DEPTH SM. START DATE 28/03/73

```
FREDINCY
                      70
MEDIAN
                              140
                                      210
                                               280
                                                        350
(DFG.C)
      NO. PCT
7.04
       49
7.12
       106
            4
              *******
7.20
       105
              ******
7.28
       86
            3
              ******
 7.36
       57
              *****
7.44
       46
            2
7.52
       181
            6
              *******
7,60
            5
      147
              ******
7.68
       256
            9
              *********
7.76
       340
              ***********
           11
7.84
      257
           9
              ********
7.92
              ***********
       315
           1 1
8.00
       156
           5
              ************
8.08
       143
              *******
8,16
       72
            2
              ******
8.24
       70
            2
              ******
8.32
       30
8.40
       22
            1
8.48
        9
           0
8.56
       14
            0
8.64
       12
            0
              * *
8.72
       16
8.80
       21
              * * *
88,8
       21
            1
8.96
       39
            1
              *****
9.04
       56
            2
              *****
9,12
       82
            3
              ******
9.20
       94
            3
              *****
9,28
       77
            3
9.36
       63
           2
              *****
9.44
       20
           1
              * * *
9,52
       14
           Ö
              * *
9,60
        2
           0
9,68
           0
9.76
        6
           0
9.84
        5
9.92
           0
10,00
        1
           0
10.08
        1
           0
10,16
```

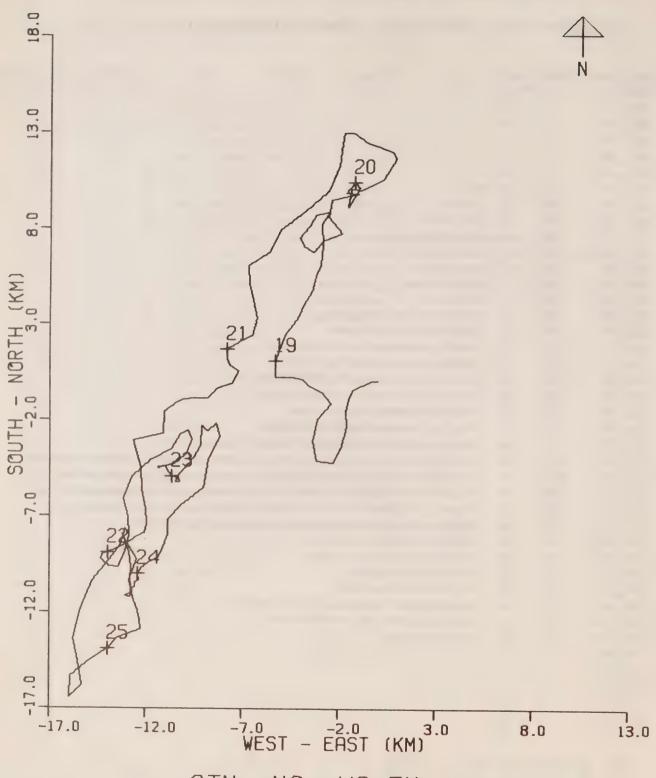
NO. OF SAMPLES OVER 10.20 = 0 NO. OF SAMPLES UNDER 7.00 = 0 TOTAL NO. OF OBSERVATIONS = 3000 SAMPLE INTERVAL = 10 MINUTES

#### HISTOGRAM OF SALTNITY

HOWE SOUND HS-5N DEPTH 5M' START DATE 28/03/73

```
MEDIAN
      FREQINCY
                   50
                          100
                                 150
                                        200
                                               250
(PPT)
      NO. PCT
24.07
       0
          0
24.21
          0
24.35
       0
24.49
       0
24.63
       0
          0
24.77
       7
          0
24.91
      27
          1
25.05
      36
          1
25.19
      48
      33
25.33
            ****
25.47
      32
          1
25.61
      42
          1
            *****
25.75
      35
            *****
          1
25.89
      85
          3
            ******
26.03
      81
            ******
          3
26.17
      117
            *******
          4
26.31
      112
            *******
26.45
      128
            *********
26.59
     120
            ********
26.73
      102
          3
            ******
26.87
     117
            *******
            **********
27.01
     169
          6
27,15
     241
            *************
27.29
     155
          7
            **************
27.43
     235
            ***********
27,57
     520
          7
            ***********
27.71
     182
            **********
27,85
     85
          3
            **********
27,99
      94
          3
28,13
      68
            *********
28.27
      73
     130
28,41
          4
            ********
28,55
     110
          4
            ********
28,69
          2
      50
            *****
28.83
       ()
          0
28,97
       0
          0
29,11
       0
          0
29.25
       0
          0
29.39
       0
          0
29.53
       0
```

NO. OF SAMPLES OVER 29.60 = 0 NO. OF SAMPLES UNDER 24.00 = 0 TOTAL NO. OF OBSERVATIONS = 3000 SAMPLE INTERVAL = 10 MINUTES

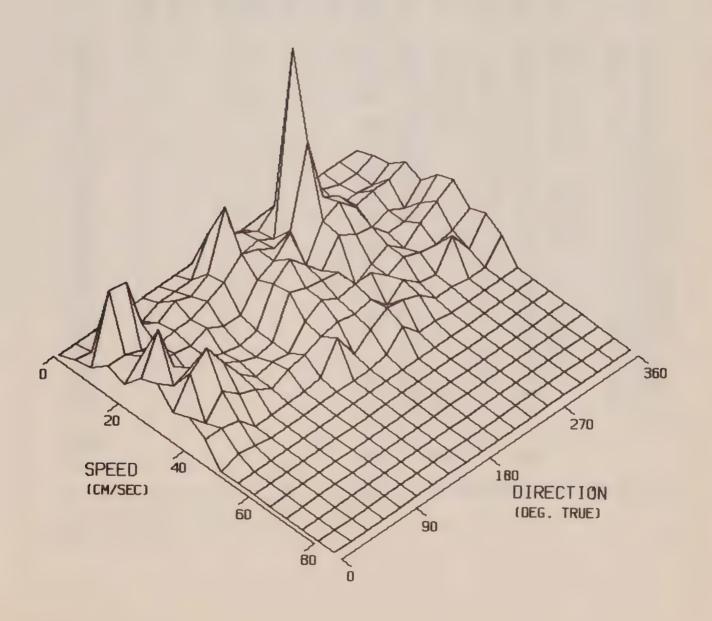


STN. NO. HS-5N DEPTH 5 M.

STARTING DATE: 18/ 4/73 ENDING DATE: 25/ 4/73

## FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N DEPTH 5 M. STARTING DATE: 18/4/73 NO. OF SAMPLES = 1039



STN. NO. HS-SN DEPTH 5 M.

STARTING DATE: 18/ 4/73 SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

## SPEED

	000	080	160	240	320	400	480	560	640	720	800	880	
010	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
0 = 14	002	013	000	0.1.//	015	000							
15= 29	003	018	009	014	015	009	003						62
30 = 44	005	019	007				002						71
45= 59	001	007		007	055	011	004						72
60= 74			006	009	010	005	001						36
	001	007	002	005	015								30
75= 89	001	004	004	004	007	001							21
90-104	005	004	006	005	002								19
105-119	002	002	006		005								13
120-134		008	001		001	001							11
135=149	005	011	003		003	002							21
150-164	007	055	012	014	012	008							75
165=179	007	017	015	018	005	005							67
180=194	006	008	015	013	010	004							56
195-209	007	011	013	010	010	007	001						59
210-224	003	011	006	008	008	009	005						47
225=239	001	015	006	007	010	011	001						51
240-254	015	082	024	008	006	008							143
255-269	006	005	013	008	006	004							42
270-284	005	006	014	010	004	002							38
285-299	002	004	004	004	008								55
300-314	200	003	002	002	500	001							12
315=329		006	003	006	006	004							25
330-344		004		006	007								17
345-359		004	005	012	005	003							29
				, ,	,	- Q 13							54
,	81		192		190		7		0		0		1039
		291		182		96	·	0	4-	0		0	,

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 0

## HISTOGRAM OF SPEED

HOWE SOUND HS-SN DEPTH SM'. START DATE 18/04/73

```
MEDIAN
     FREGINCY
                 20
                        40
                               60
                                      80
                                            100
(MM/S)
     NO. PCT .
  - 8
      0
  24
      2
 40
      15
         1
           *****
 56
      27
         3
          ****
 72
      37
           *****
 88
      49
         5
           *******
 104
      61
           ***********
 120
      75
           **********
 136
     50
           ********
 152
     56
         5
           *******
 168
      34
         ጄ
 184
     40
           *****
 200
     44
         4
           *******
 216
     33
         3
 232
     54
           *******
 248
     31
         3
           ******
 264
     35
         3
           **********
 280
     26
         3
 296
     41
           *****
 312
     36
         ኚ
           *****
 328
     41
           ******
 344
     39
           ******
 360
     47
         5
           *******
 376
     ZA
           *****
392
     33
         3
           *******
408
     1.3
           ****
424
     21
         2
           *****
440
     24
           *****
456
     16
472
     14
           *****
488
      3
         0
           * *
504
      4
         0
           * *
520
      0
         0
536
      0
         0
552
      0
568
      0
584
      0
600
      0
616
      0
632
      0
```

NO. OF SAMPLES OVER 640 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 1039
SAMPLE INTERVAL = 10 MINUTES

#### HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 5M' START DATE 18/04/73

```
MEDIAN
     FREQ!NCY
                  20
                         40
                                 60
                                        80
                                             100
(DEG.T) NO. PCT
  5
     42
           ******
  15
      47
         5
            *******
  25
      49
         5
      5.0
  35
         5
           ********
  45
      38
           *******
         4
  55
      16
  65
      23
           ********
  75
      1.3
  85
      14
      13
  95
 105
      9
 115
      12
 125
      7
      9
 135
           ****
      18
 145
 155
      43
           *******
      59
 165
           **********
 175
      38
           ******
 185
      41
         4
           *******
 195
      36
         3
           *******
 205
      39
           *******
 215
      30
         ፯
 225
      32
         3
           *****
 235
      41
            ******
 245
      98
           **********
      58
 255
         6
           ********
 265
      22
         7
 275
      24
            ******
 285
      26
 295
      Q
 305
      9
         1
 315
      16
            *****
 325
      14
            *****
 335
      1.1
         1
 3/15
      14
         1
 355
      19
         2
 365
      0
 375
      0
 385
      0
         0
 395
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 1039
SAMPLE INTERVAL = 10 MINUTES

HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 5M. START DATE 18/04/73

```
MEDTAN
        FREDINCY
                            40
                                       80
                                                120
                                                           160
                                                                      200
        NO. PCT
(DEG.C)
 8.37
           3
8.41
          1
               0
8.45
          5
               0
 8.49
          6
               1
                  * *
8,53
          6
8,57
          1
               0
8,61
         11
               1
8,65
         10
               1
8,69
         25
               2
8,73
         9
               1
                  * *
8,77
         20
8,81
         33
                  *****
8,85
         36
               3
8.89
         14
               1
8.93
         47
               5
8,97
         44
9.01
         54
               5
9.05
         29
              3
9,09
         98
              9
                  ********
9.13
        117
             11
                  ********
9.17
        203
             20
                    ************
9.21
         73
9,25
         81
9.29
         42
              4
                  *****
9.33
         21
               2
9.37
          9
9.41
          7
9.45
         11
9.49
          2
              0
9.53
          5
              0
9.57
          4
              0
9.61
          3
              0
9,65
          2
              0
9.69
          2
              0
9.73
          2
              0
9.77
          1
              0
9,81
          0
              0
9.85
          0
              0
9.89
          3
              0
9,93
          0
              0
```

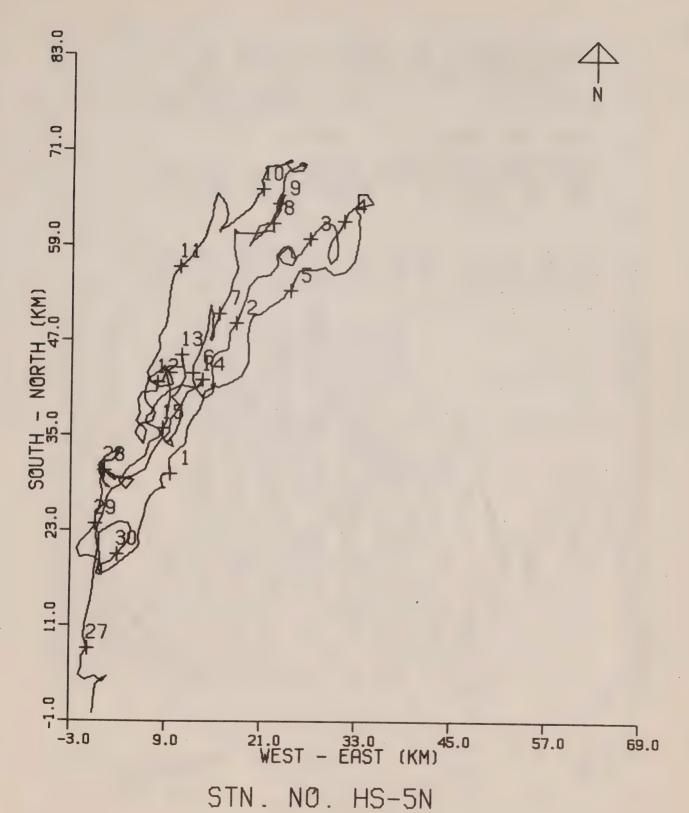
NO. OF SAMPLES OVER 9.95 = 2
NO. OF SAMPLES UNDER 8.35 = 0
TOTAL NO. OF OBSERVATIONS = 1039
SAMPLE INTERVAL = 10 MINUTES

### HISTOGRAM OF SALINITY

HOWE SOUND HS-5N DEPTH 5M. START DATE 18/04/73

```
MEDTAN
       FREGINCY
                       30
                               60
                                        90
                                                120
                                                         150
(PPT)
       NO. PCT .
24.24
        0
24.32
         1
            0
24.40
         0
            n
24.48
         1
            0
24,56
         0
            0
24.64
24.72
         0
            0
24.80
        0
24.88
        2
            0
24.96
        0
            0
25,04
        1
            0
        2
25,12
            0
25.20
        1
            0
25,28
        1
            0
25.36
        2
25.44
        9
            1
        7
25,52
            1
               * *
25.60
        11
25.68
        13
            1
25.76
       22
25.A4
       48
            5
               ******
25,92
       61
               ********
               **********
26.00
       74
            7
26.08
       114
               ***********
           11
              ***********
26,16
       151
           15
26.24
       128
           12
              ***********
26,32
       90
            9
               ********
26.40
       65
              ********
26,48
       63
              ********
26.56
       38
              *****
26.64
       39
            4
              *****
26.72
       27
            3
              *****
26.80
       17
26.88
       25
            2
26.96
       16
            2
              ****
27.04
        5
            0
              * *
27.12
        2
            ()
27,20
        3
            0
27,28
        0
            0
27.36
        0
            0
```

NO. OF SAMPLES OVER 27.40 = 0
NO. OF SAMPLES UNDER 24.20 = 0
TOTAL NO. OF OBSERVATIONS = 1039
SAMPLE INTERVAL = 10 MINUTES

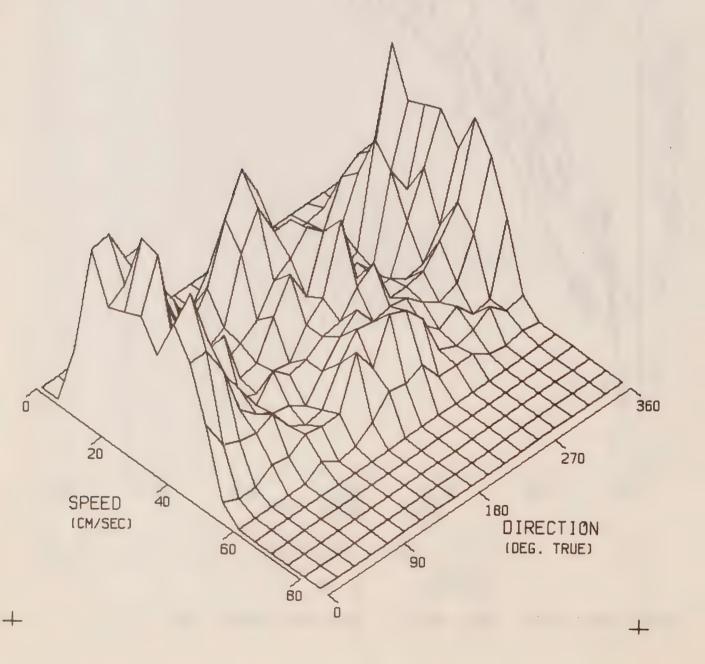


DEPTH 5 M.

STARTING DATE: 26/ 4/73 ENDING DATE: 15/ 5/73

## FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N DEPTH 5 M. STARTING DATE: 26/4/73 NO. OF SAMPLES = 2720



STN. NO. HS-5N DEPTH 5 M.

STARTING DATE:26/ 4/73 SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

#### SPEFD

	000	080	160	240	320	400	480	560	640	720	800	880	
	TO												
DIR	079	159	239	319	399	479	559	639		799	879	959	
									,	,			
0- 14		038	054	061	049	066	013	002					283
15= 29		047	041	062	035	043	011						239
30= 44	002	036	042	044	032	036	006						198
45- 59	003	950	037	028	019	025	014						154
60- 74	001	020	027	022	016	015	008						109
75- 89		012	025	020	015	009	013	001					95
90-104	001	013	009	023	007	009	006	001					69
105=119		007	002	006	004	004	008	004					. 35
120-134		010	009	004	008	006	006	001					44
135=149		011	010	005	006	006	009	001					48
150=164		029	024	008	008	006	016	006					97
165=179		022	041	020	004	014	019	006					126
180=194		043	026	022	015	021	021	008					156
195=209	003	027	025	024	019	023	028	014					163
210-224	013	013	022	028	030	150	016	018					161
225=239	002	011	019	028	029	013	011	010					123
240-254	003	009	006	011	017	150	020	010					97
255=269		500	002	003	008	012	006	004					37
270-284	002	004	002	007	008	010	002	003					38
285-299		007	004	003	010	006	008	003					41
300-314	001	005	005	006	004	013	200	004					40
315=329	003	015	035	026	016	011	005	003					114
330=344		031	016	021	015	018	003	001					105
345=359		023	029	038	027	021	010						148
		,											. 40
	34		512		401		261		0		ð		2720
		463		520		429		100		0		0	J. 160
												3,7	

NO' OF SPEEDS EXCEEDING 960 MM/SEC = 0

### HISTOGRAM OF SPEED

HOWE SOUND HS-5N DEPTH 5M. START DATE 26/04/73

```
MEDIAN
    FREGINCY
              30
                          90
                    60
                               120
                                     150
(MM/8)
    NO. PCT .
  8
     0
       0
 24
     0
       Ô
 40
       0
     7
 56
       0
 72
     27
         *****
 88
     38
         *****
 104
     69
       3
         *******
    119
         ************
 120
 136
    122
         **********************
 152
    115
         **********
 168
    118
       4
         **********
 184
    111
         *********
 200
    107
       4
         *********
 216
   103
       4
         *********
    104
 232
         ********
       4
    77
 248
       3
         *******
 264
         *******
    100
280
    100
       4
         ********
296
    120
         *********
    92
312
       3
         *********
328
    80
       3
         *******
344
    80
       3
         ******
    83
360
       3
         ********
376
    81
       3
         ********
392
    96
       4
         *****
408
    74
       3
         *******
424
    93
       3
         ********
440
    94
       3
         ******
456
    90
       3
         ********
472
    59
       2
         *******
488
    66
       2
         ******
504
    62
       2
         *******
520
    47
       2
         **********
536
    43
       2
         *****
552
    58
         *****
568
    36
         ****
584
    29
       1
         ******
600
    14
       1
         ****
616
     6
       0
         **
632
     0
       0
```

NO. OF SAMPLES OVER 640 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2720
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 5M. START DATE 26/04/73

```
MEDIAN
     FREGINCY
                 50
                      100
                             150 200
                                           250
(DEG.T) NO. PCT .
  5
     203
         7
 15
     173
           *******
 25
     161
           ********
 35
     137
         5
          安安大大大大大大大大大大大大大大大大大大大大大大大大
 45
     112
          55
     100
          ****
     75
 65
         3
          *****
 75
     64
         2
          *****
     59
 85
         2
 95
     44
          ****
 105
     38
           ****
 115
     17
           ***
         1
 125
     35
         1
           ****
 135
     26
           ****
         1
 145
     35
 155
     62
           *****
 165
     80
         3
           *****
 175
     88
         3
           *****
 185
     110
           ******
195
     101
           ****
205
     102
           ******
215
     115
           *********
     103
225
           *****
 235
     66
245
     72
         3
           ******
255
     32
         4
           ****
265
     27
     26
275
           ****
285
     30
         1
           *****
295
     24
         1
305
     21
315
     53
         2
325
     A T
         3
           *****
335
     68
         3
345
     85
           ******
355
     93
         3
           ******
365
      0
        0
375
      0
        0
385
      0
        0
395
      0
        0
```

NO. OF SAMPLES OVER 400 = 0 NO. OF SAMPLES UNDER 0 = 0 TOTAL NO. OF OBSERVATIONS = 2720 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-SN DEPTH 5M. START DATE 26/04/73

```
MEDTAN
     FREQINCY
                  40
                         80
                               120
                                      160
                                             200
(DEG.C) NO. PCT .
7.08
      0
         0
7.24
      12
         0
7,40
      3.0
         1
           ******
7.56
      23
7.72
      46
         2
           *****
7.88
      49
         2
           ******
8.04
      43
         2
           ******
8.20
      68
           *****
         3
8.36
      67
         2
           ******
8.52
      82
         3
           ******
8.68
      87
         3
           ******
8.84
      58
         2
           *****
9,00
           ******
      87
         3
9,16
      90
         3
           ********
9,32
      67
         2
           *****
9,48
      79
         3
           **********
9.64
      77
         3
           ******
9.80
     104
         4
           ********
9,96
     94
         3
           *******
10,12
      76
         3
           *****
10,28
      71
         3
           *****
10.44
      81
         3
           *****
10.60
     121
           ******
         4
10.76
     127
         5
           *******
10,92
           为六大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大
     157
         6
11.08
     139
         5
           *********
11,24
           *******
     105
         Δ
11.40
     123
         5 .
           *******
11.56
     172
           ***********
         6
11,72
     145
         5
           *********
11.88
     67
         2
           *****
12.04
     69
         3
           ******
12,20
     30
         1
           ****
12,36
      25
         1 . *****
12,52
      5
         0
12.68
      34
         1
           *****
12.84
      10
         0
13.00
      0
         0
13,16
      0
         0
13,32
      0
         0
```

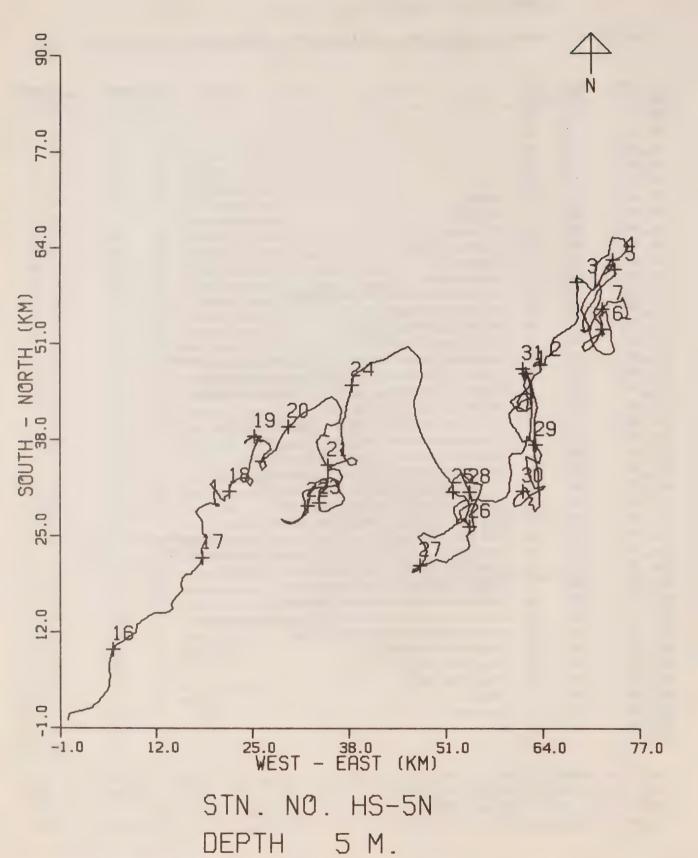
NO. OF SAMPLES OVER 13.40 = 0
NO. OF SAMPLES UNDER 7.00 = 0
TOTAL NO. OF OBSERVATIONS = 2720
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS=5N DEPTH 5M' START DATE 26/04/73

```
MEDIAN
      FREGINCY
                  40
                        80
                              120
                                     160
                                            200
(PPT)
      NO. PCT .
18,15
       0
          0
18.45
       0
18.75
19.05
       0
19.35
      0
19.65
      16
19.95
      27
         1
20.25
      29
          1
20,55
      42
            *******
20.85
      85
          1
           *****
21.15
      34
           *****
21,45
      96
         4
           *******
21.75
      68
           *******
         3
22,05
      67
           *********
22.35
      69
         3
           *****
22.65
     138
           *********
22,95
     130
         5
           *********
23.25
     133
           **********
         5
23.55
     77
         3
23.85
     117
           ********
24.15
     100
           ******
24.45
     109
           *******
24.75
     103
           *******
25.05
     106
         /1
           ********
25.35
     96
           ******
         4
25,65
     112
           ********
25.95
           ***********
     159
26,25
     133
           ********
26,55
           *******
     118
         4
26.85
     95
         3
           **********
27,15
     96
           ********
27.45
           *********
     132
         5
27.75
     92
         3
           ********
28,05
     62
           ******
28,35
     50
           ********
28.65
     42
           ******
28,95
      20
           ****
29.25
      22
         1
           ****
29,55
      5
         0
29,85
      0
```

NO. OF SAMPLES OVER 30.00 = 0
NO. OF SAMPLES UNDER 18.00 = 0
TOTAL NO. OF OBSERVATIONS = 2720
SAMPLE INTERVAL = 10 MINUTES

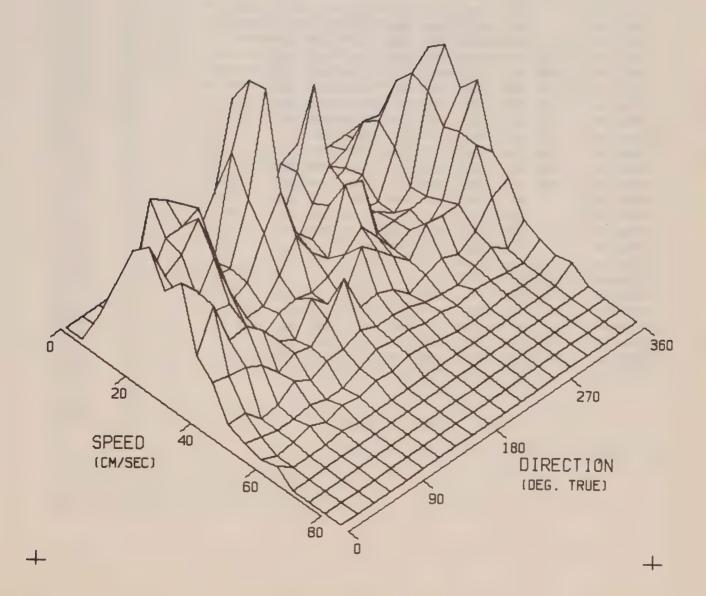


STARTING DATE: 15/ 5/73 ENDING DATE: 7/ 6/73

+

## FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N DEPTH 5 M. STARTING DATE: 15/5/73 NO. OF SAMPLES = 3336



STN. NO. HS-5N DEPTH 5 M.

STARTING DATE: 15/ 5/73 SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

## SPEED

DIR	000 TO 079	TO	TO	TO	TO	TO	TO	TO	640 TO 719	720 TO 799	800 TO 879	880 TO 959	
0= 14 15= 29 30= 44 45= 59 60= 74 75= 89 90=104 105=119 120=134 135=149 150=164 165=179 180=194 195=209 210=224 225=239 240=254 255=269 270=284 285=299 300=314 315=329 330=344 345=359	004 005 002 003 001 003 006 016 002 003 001 001 005 002	030 017 019 070 047 054 016 040 039 071 055 003 007 059 002 003 015 022 036 019	031 058 058 052	044 035 055	054 044 036 039 028 017 013 006 018 019 025 019 011 006 011 011 005 011 036 050	026 031 020 024 014 008 016 021 024 017 009 020 015 010 002 008 011 011 004 018 019 028	007 003 001 003 006 002 004 006 008 009 007 004 005 004 002 001	005 001 003 001 002 001 003 006 003 001 001 001 001					238 174 172 254 203 184 105 66 108 162 260 178 77 132 119 149 76 40 43 37 91 181 211
	58	750	822	686	511	369	96	43	1	0	0	0	3336

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 0

#### HISTOGRAM OF SPEED

## HOWE SOUND HS-5N DEPTH 5M. START DATE 15/05/73

```
MEDIAN
    FREGINCY
                50
                     100
                            150
                                  200
                                        250
(MM/S)
    NO. PCT
 1.0
     0
      3
 30
        0
 50
     16
 70
     39
          *****
 90
     119
          ******
 110
     194
          ***********
 130
    242
          ************
 150
    195
        6
          ***********
 170
    207
          **********
        6
 190
    222
          ************
 210
    212
          ***********
 230
    226
          ************
 250
    152
          *******
 270
    161
        5
          ********
 290
    174
        5
          *******
 310
    154
        5
          *******
 330
    138
          *******
        41
 350
    143
          *******
 370
    129
        4
          ********
 390
    125
          *******
 410
     88
        3
          *********
 430
    121
        71
          *********
 450
     68
        7
          *****
 470
     68
          *******
 490
     34
 510
     25
          ****
 530
     2A
          *****
 550
     17
        1
 570
     11
        0
          **
 590
     13
        0
 610
     6
        0
 630
      5
        0
 650
      1
        0
 670
      0
 690
      0
 710
      0
 730
      0
        1
 750
        0
770
     0
790
```

NO. OF SAMPLES OVER 800 = 0 NO. OF SAMPLES UNDER 0 = 0 TOTAL NO. OF OBSERVATIONS = 3336 SAMPLE INTERVAL = 10 MINUTES

#### HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 5M. START DATE 15/05/73

```
MEDTAN
    FREGINCY
               40
                      8.0
                           120
                               160
                                        200
(DFG.T) NO. PCT .
    181 5
  5
          ***********
 15
       4 ****************
    126
 25
    116
       3 ***************
 35
    129 4 *******************
 45
    135 4 ********************
 55
    164 5 **********************
 65 143 4 ********************
 75
    121 4 ******************
 85
    124 4 ****************
 95
    69 2 **********
 105
    45 1 *******
 115
    49 1 ********
    52
 125
          *****
 135
    130
       4 **********
    95
 145
        3 ************
 155
    168
        5 ************
 165
    193
        6 ************
    75
 175
        2 ***********
 185
    45
        1 *******
 195
    5.0
        1
          *****
 205
    56
        2 *********
 215
    84
         *******
    99
 225
        3 ***********
 235
    69
        2 ***********
 245
    131
        41
         ********
 255
    34
        1
          *****
    52
 265
          ******
 275
    19
285
     34
         ******
 295
     29
        1
          ****
    20
305
          ****
315
     UB
          *******
        1
325
    71
        2 **********
    123
335
        4
          *********
345
    130
       4 **************
355
    127
          *********
 365
    ( )
375
     0
        0
 385
     (1
395
     0
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 3336
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 5M START DATE 15/05/73

```
MEDTAN
      FRERINCY
                  50
                         100
                                150
                                      200
                                             250
(DEG.C)
      NO. PCT
 8.69
      0
 8.87
      12
          0
 9.05
      30
          1
 9.23
      32
 9.41
      32
 9,59
      18
          1
 9.77
      22
 9,95
      44
          1
            *****
10.13
      45
          1
            *****
10.31
      78
            *********
10.49
      88
            *******
10.67
      150
            **********
10.85
      151
          5
            ********
11.03
      146
            ********
     218
11.21
            **********************
          7
11.39
     205
            **********
11.57
     195
            ***********
          6
11.75
     203
            *********
          6
11.93
     166
            ********
12,11
     154
          5
            ********
12.29
     165
          5
            ********
12.47
     196
            ************
12.65
     149
            *********
         4
12.83
     121
            **********
          4
13,01
     152
         5
            *********
13,19
      73
13.37
      71
13.55
      82
            *********
13.73
      87
            *******
13,91
     103
            ******
14.09
      56
            *****
14.27
      48
14.45
      1.0
         0
            **
14.63
      21
         1
            ***
14.81
      7
14.99
      5
         0
15,17
      1
         0
15,35
      0
         0
15.53
      0
15.71
      0
```

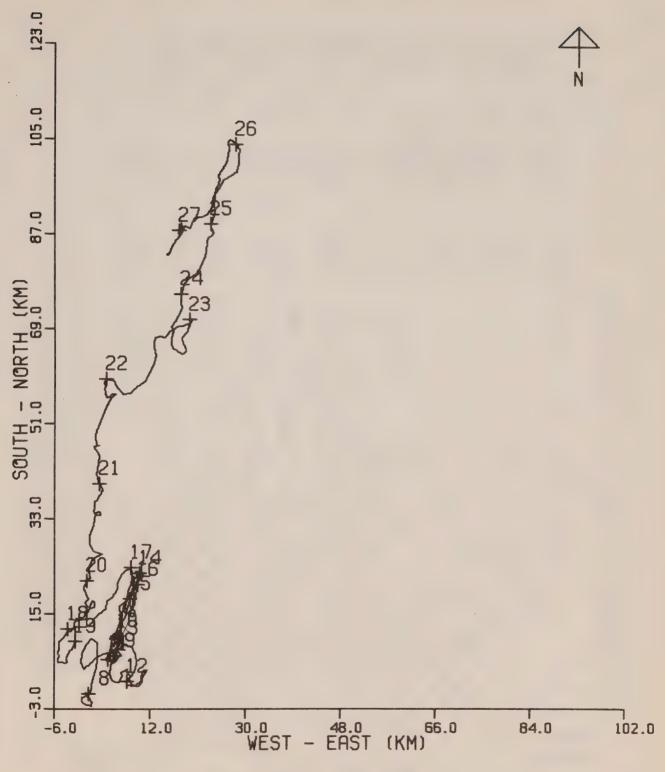
NO. OF SAMPLES OVER 15.80 = 0 NO. OF SAMPLES UNDER 8.60 = 0 TOTAL NO. OF OBSERVATIONS = 3336 SAMPLE INTERVAL = 10 MINUTES

#### HISTOGRAM OF SALTNITY

## HOWE SOUND HS-5N DEPTH 5M. START DATE 15/05/73

```
FREGINCY
MEDIAN
                   60
                          120
                                 180
                                         240
                                                300
(PPT)
      NO. PCT
 7.26
       0
           0
 7.78
       6
           0
 8.30
 SA.A
          0
 9.34
       - 8
 9.86
       20
          1
10.38
      12
             * *
10,90
       25
          1
11.42
       17
          1
11,94
       16
12.46
       14
          0
12.98
       14
13.50
       12
          0
            * *
14.02
      28
14,54
      45
            *****
15.06
      67
            *****
15.58
      40
16.10
      33
          1 *****
      57
16.62
            *******
17.14
      52
            ******
17.66
      45
            *****
18.18
      89
            ********
18,70
      100
            ******
      96
19.22
          3
            ******
19.74
      169
          5
            *********
20.26
      177
            ********
20.78
      208
            ***********
          6
21.30
      238
            ********
          7.
SA.15
     241
          7
            ***********
22.34
     241
            ***********
          7
22.86
     214
            ***********
23.38
     261
          A
            **********
23.90
     153
          5
            **********
24.42
     104
          3
            *******
24.94
     159
          5
            ********
25.46
     171
            ********
25.98
     101
          3
            ******
26.50
      56
            ******
27.02
      34
          1
            ****
27.54
      1
```

NO. OF SAMPLES OVER 27.80 = 0 NO. OF SAMPLES UNDER 7.00 = 0 TOTAL NO. OF OBSERVATIONS = 3336 SAMPLE INTERVAL = 10 MINUTES



STN. NO. HS-5N

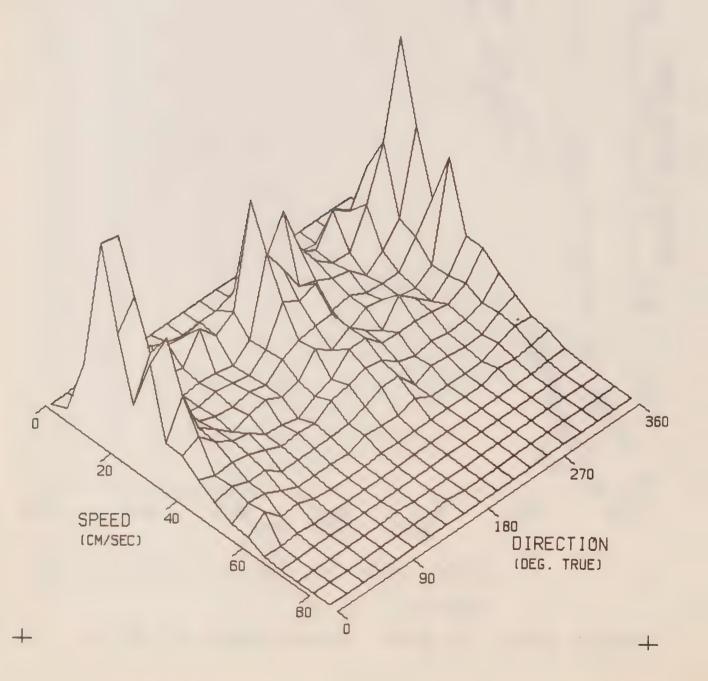
DEPTH 5 M.

STARTING DATE: 7/ 6/73 ENDING DATE: 27/ 6/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

+

STN. NO. HS-5N DEPTH 5 M. STARTING DATE: 7/6/73 NO. OF SAMPLES = 2851



STN. NO. HS-5N DEPTH 5 M.

STARTING DATE: 7/6/73 SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)
AND SPEED (MM/SEC).

# SPEED

	000	080	160	240	320	400	480	560	640	720	800	880	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
0- 14	005	087	103	097	036	027		010					376
15= 29	001	081	096	070	048	023	014	011					344
30- 44	007	065	031	850	027	012	012	007					189
45- 59	005	024	014	015	050	059	006	0 0 7					117
60- 74	006	023	006	006	010	010	012	005					75
75= 89	003	021	009	008	011	009	005	001					64
90-104	001	015	008	009	007	003	002						45
105-119	003	012	009	015	009	009	004						61
120-134		025	009	004	007	005	002			001			53
135-149	001	017	002	006	004	005	002						34
150-164		055	009	010	005	012	004	001			001		64
165-179		035	053	023	016	009	005						141
180-194		046	053	034	023	016	009						181
195-209	001	034	046	950	018	015	008						151
210-224	001	046	029	850	019	020	008	001					152
225-239	001	036	850	018	016	022	006						127
240-254	001	024	150	004	005	006	002						63
255-269	002	055	012	016	004	009	001						66
270-284	002	011	007	009	015	006	003						53
285-299		022	006	005	014	008	002	001					58
300-314	001	022	004	007	007	003	002	003					49
315-329		038	009	003	004	007	200	003					66
330-344	005	060	023	010	008	011	006	003	001				127
345-359	004	076	039	030	019	013	010	004					195
<del></del>	74 %	J , J						, , ,					• , ,
	47		626		352		138		1		1		2851
	7	864		484	<b>3</b> ** **	283		54	•	1	*	0	
				7 -11		Jul 17 .3		45. 4		*		7.8	

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 0

## HISTOGRAM OF SPEED

HOWE SOUND HS-5N DEPTH 5M. START DATE 07/06/73

```
MEDIAN
      FREGINCY
                    60
                           120
                                   180
                                           240
                                                   300
      NO. PCT
(MM/S)
                            .
  1.0
      0
          0
  30
       - 1
          0
  50
       4
  70
      112
  90
      115
             ********
 110
      222
             ***********
 130
      242
          A
             ***********
 150
      285
          1.0
             *************
 170
      218
             ***********
 190
      174
             *********
          6
 210
     149
            ********
 230
     107
          4
            ******
 250
      96
          3
 270
      112
          4
            ******
 290
      124
          4
 310
      130
            ******
 330
      104
            ********
 350
      97
          3
            *****
 370
      85
          3
            ******
 390
      83
          3
 410
      66
          2
 430
      74
          3
 450
      64
            *******
 470
      62
 490
      54
 510
      34
 530
      85
 550
      26
 570
      17
          1
 590
      16
          1
            * * *
 610
      12
          0
 630
       5
 650
       0
          0
 670
       1
 690
       0
          0
 710
       0
          0
730
       0
          0
750
       1
770
       0
790
       0
```

NO. OF SAMPLES OVER 800 = 1 NO. OF SAMPLES UNDER 0 = 0 TOTAL NO. OF OBSERVATIONS = 2851 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 5M' START DATE 07/06/73

```
MEDTAN
      FREGINCY
                      6.0
                             120
                                     180
                                              240
                                                      300
      NO. PCT :
(DEG.T)
  -5
      264
  15
      281
           1.0
  25
      192
           7
              ***************
  35
      130
           5
             *******
  45
       95
  55
       72
           3
             ******
  65
       48
              ******
  75
       46
  85
       38
  95
       35
              ****
 105
       27
 115
       43
              *****
 125
       37
 135
       25
 145
       26
           1
 155
       43
           2
              *****
 165
       61
              ****
 175
      108
 185
      136
           5
             *******
 195
      102
           71
              *****
 205
       98
              *****
 215
       90
           3
 225
      122
 235
       60
           2
 245
       43
           2
              *****
 255
       47
       38
 265
 275
       30
 285
       48
              *****
 295
       34
 305
       33
              ****
 315
       32
 325
       48
 335
       93
             ******
           3
 345
       97
           3
 355
      129
           5
              ********
       0.
 365
           0
 375
       0
           0
 385
       0
           0
 395
```

NO. OF SAMPLES OVER 400 = 0 NO. OF SAMPLES UNDER 0 = 0 TOTAL NO. OF OBSERVATIONS = 2851 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 5M' START DATE 07/06/73

```
MEDTAN
      FREGINCY
                   50
                         100
                                 150
                                        200
                                                250
(DEG.C) NO. PCT .
 8.88
       5
          0
 9.04
       7
          0
 9.20
       -8
 9.36
      25
 9.52
      58
          2
            ******
 9,68
      76
          3
 9.84
      93
          3
            ******
10,00
     106
          4
            *******
10.16
     83
          3
            *******
      79
10.32
            *****
          3
10.48
      87
          3
            **********
10.64
      75
            *******
          3
10.80
      79
          3
            *********
10,96
            ********
      129
          5
11.12
      117
          4
            *******
11.28
            ********
     132
          5
11.44
     106
          4
            *******
11.60
     174
            *********
          6
11.76
     176
            **********
          6
11.92
     202
            ***********
          7
12.08
     162
            **********
12.24
     153
            ********
12.40
     129
          5
            ********
12.56
     137
          5
            *******
12.72
     84
          ζ
            *********
12.88
      62
            ******
13.04
      32
          1
13,20
      22
          1
            ***
13.36
      51
13.52
      82
            ******
          3
13.68
      44
            *******
13.84
      34
          1
14.00
      21
            ***
          1
14,16
      15
          1
            ***
14.32
      -6
          0
14.48
      -3
          0
            *
14.64
      ()
          0
14.80
       0
14.96
       0
          Ô
15.12
       1
          0
```

NO. OF SAMPLES OVER 15.20 = 0 NO. OF SAMPLES UNDER 8.80 = 0 TOTAL NO. OF OBSERVATIONS = 2852 SAMPLE INTERVAL = 10 MINUTES

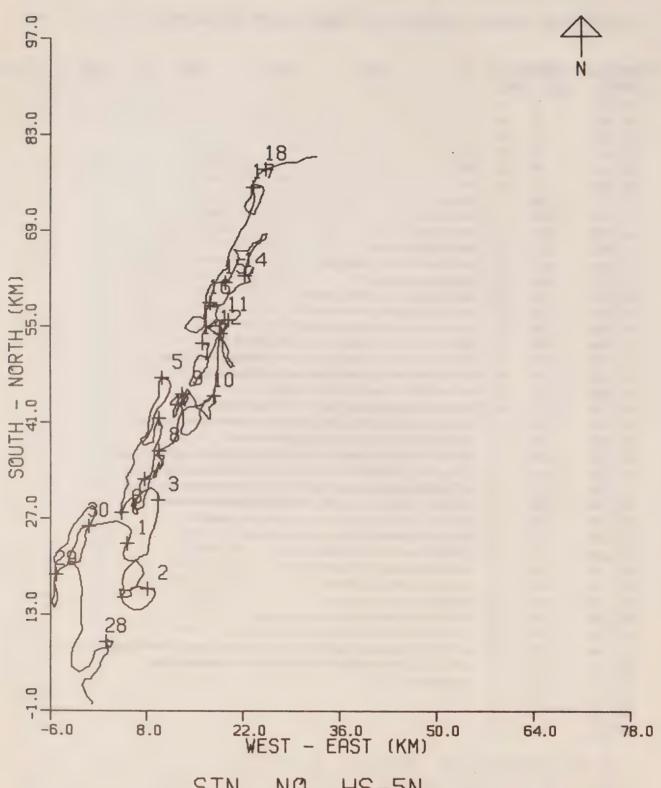
200

# HISTOGRAM OF SALINITY

HOWE SOUND HS-5N DEPTH 5M' START DATE 07/06/73

```
MEDTAN
     FREGINCY
                   40
                          80
                                120
                                        160
(PPT)
     NO. PCT
10.24
       3
          0
10.72
       0
          0
11.20
       1
          0
11.68
       3
          Ō
       9
12.16
          0
12.64
       4
          0
13.12
      15
          1
            ***
13.60
      26
            ****
          1
14,08
      24
          1
14.56
      44
          2
            ******
15.04
      62
          2
            *****
15.52
      46
      71
16,00
          2
            *****
16,48
      77
          3
            ******
16,96
      72
          3
            *******
17.44
      99
          3
17.92
     127
          4
18,40
     115
          4
            ******
18,88
      83
          3
            ******
19,36
     117
            *******
19,84
     135
          5
            ***********
20,32
      99
          3
     149
20.80
          5
            ********
21.28
     144
          5
            **********
21.76
     145
          5
            ***********
22,24
     128
            **********
          4
22.72
     115
          4
            *******
23.20
      97
          3
            ********
23,68
      81
          3
            ******
      76
24.16
          3
            ******
24.64
      67
          2
            ******
25,12
      58
          2
            *********
      87
25.60
          3
            ********
26.08
      94
          3
26,56
     180
          6
27.04
            *****
     132
          5
27,52
      85
          1
28,00
       9
          0
            * *
28,48
       0
          0
28.96
       0
          0
```

NO' OF SAMPLES OVER 29.20 = 0
NO' OF SAMPLES UNDER 10.00 = 30
TOTAL NO' OF OBSERVATIONS = 2852
SAMPLE INTERVAL = 10 MINUTES
OC2 RELEASED.



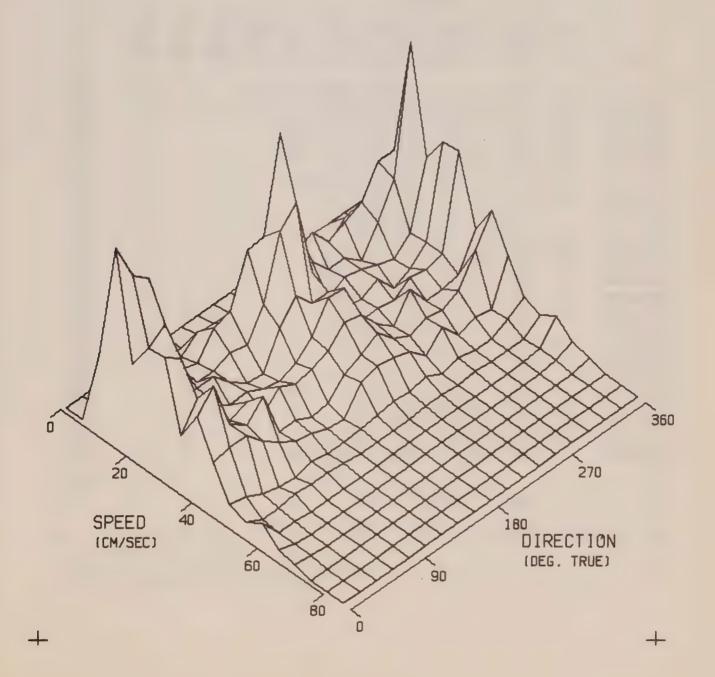
STN. NO. HS-5N DEPTH 5 M.

STARTING DATE: 27/ 6/73 ENDING DATE: 18/ 7/73

+

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N DEPTH 5 M. STARTING DATE: 27/6/73
NO. OF SAMPLES = 3000



STN. NO. HS-SN DEPTH 5 M.

STARTING DATE: 27/ 6/73 SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

## SPEED

DIR	000 TO 079	080 TO 159	160 TO 239	240 TO 319	320 TO 399	400 TO 479	480 TO 559	560 TO 639	640 TO 719	720 TO 799	800 TO 879	880 TO 959	
0= 14 15= 29 30= 44 45= 59 60= 74	001 001 001 001	078 074 062 049 019	048 055 070 025 024	109 065 030 023 017	044 050 035 024 019	036 042 032 021 025	008 007 003 001 001	011 001 001 001 003	004				339 296 234 145 109
75= 89 90=104 105=119 120=134	001	010 011 019 016	015 010 020 012	018 017 011 010	025 006 017 010	015 010 005 003	001						85 60 76 51
135=149 150=164 165=179 180=194 195=209	002	012 029 038 042 075	021 031 049 076 069	005 010 023 028 035	008 010 017 019 028	001 002 005 016 015	001 001 001 002						49 85 136 184 226
210=224 225=239 240=254 255=269	001	039 029 022 025	032 014 011 014	032 023 008 011	029 016 011 012	019 016 008 003	001						153 103 62 65
270=284 285=299 300=314 315=329 330=344	001 011 002	018 014 014 029 035	011 010 007 008 012	008 018 006 010 011	014 014 011 009 011	010 009 006 008 011	002	001	,				63 66 45 75 83
345-359	38	833	043 687		030	339	005	006	001	0	0	0	3000

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 0

# HISTOGRAM OF SPEED

HOWE SOUND HS-5N DEPTH SM. START DATE 27/06/73

```
MEDTAN
     FREGINCY
                 60
                       120
                              180
                                     240
                                            300
(MM/S)
     NO. PCT .
  9
      0
        0
  27
      1
         ٥
 45
      0
         ٥
 63
      24
         1
 81
     72
         2
           *****
 99
     120
           ******
 117
     219
         7
           ************
 135
     220
           *********
 153
     215
           *********
         7
 171
     219
         7
           **********
 189
     153
         5
           ******
 207
     161
           *******
         5
 225
     122
           ****
 243
     122
           *********
 261
     142
         5
           *******
 279
     113
           *******
 297
     117
           *******
 315
     129
 333
     117
           ******
 351
     122
         4
           *******
 369
     70
 387
     127
           ********
 405
     79
         3
           *****
 423
     94
           *********
 441
     86
         3
           ******
 459
     55
         2
           *****
 477
     35
         1
 495
     -8
         0
 513
     11
         0
           * *
 531
     11
         0
           * *
 549
      5
         0
           *
567
      8
         0
585
      7
         0
603
      6
         0
621
         0
639
      0
         0
657
      2
         0
675
      2
         0
693
      2
         0
711
      0
```

NO. OF SAMPLES OVER 720 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS +5N DEPTH 5M. START DATE 27/06/73

```
60 120 180 240 300
MEDIAN
    FREGINCY
(DEG.T) NO. PCT .
         *********
    258
  5
        7 ******************
 15
    200
    193
        6 **************
 25
 35
    155
        5
         ******
    119
 45
 55
    97
          ******
        3
 65
     67
        2 ********
 75
     65
        2 ********
 85
     57
        2 ******
     34
 95
        1 ****
 105
    46
        2 ******
 115
     57
        2 ********
    34
 125
 135
     31
        1
        1 *****
 145
     36
        2 *******
     54
 155
     76
 165
 175
     95
        3 *********
 185
    121
        4 **********
 195
    142
        5
         *****
 205
    151
        5 **************
 215
    97
        3
          ******
 225
     93
 235
     54
        2 *******
 245
     47
        2
          *****
 255
     35
        1 *****
 265
     46
        2
         *****
 275
     49
 285
     47
        2 ******
 295
     35
        1 *****
 305
     27
        1 ****
 315
     43
        1 *****
 325
    49
        2 ******
 335
     52
 345
     98
          ******
        3
 355
    140
       5 *************
 365
    0
        0
 375
     0
       0
 385
      0
        0
 395
      0
        0
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES

# HISTOGRAM OF TEMPERATURE

# HOWE SOUND HS-5N DEPTH 5M. START DATE 27/06/73

```
MEDTAN
     FREGINCY
                 40
                        80
                              120
                                    160
                                           200
(DEG.C)
     NO. PCT
9.89
      12
         n
10.07
      49
           *******
         2
10.25
      38
           *******
         1
10.43
      66
         2
           *****
10.61
           *********
     126
10.79
     136
         5
           ********
10.97
           *******
     107
11.15
     134
           ******
         4
11.33
           *********
     104
         3
11,51
           ********
     139
         5
11.69
     148
         5
           ********
11.87
     128
         4
           ********
12.05
           ***********
     171
         6
12,23
           **********
     144
         5
12.41
     99
         3
           *******
12.59
     119
           ******
           ********
12.77
     128
         4
12,95
           *********
     133
13.13
     110
           *********
         4
13,31
      84
         3
           *******
           *******
13.49
      98
         3
13.67
      87
         3
           *******
13.85
      86
         3
           ********
14.03
      98
         3 *************
14.21
      90
         3
           ***********
14.39
      76
         3
           ******
14.57
      45
         2
           ******
14,75
      52
         2
           ********
14.93
      43
         1
           ******
15.11
      32
         1
           *****
15.29
      17
         1
15.47
      20
         1
           ****
15.65
      15
         1
      8
15,83
         0
16.01
      1
         0
16,19
      3
         0
16.37
     12
         0
     85
16.55
         1
      9
16.73
         0
           黄素
16.91
      2
         0
```

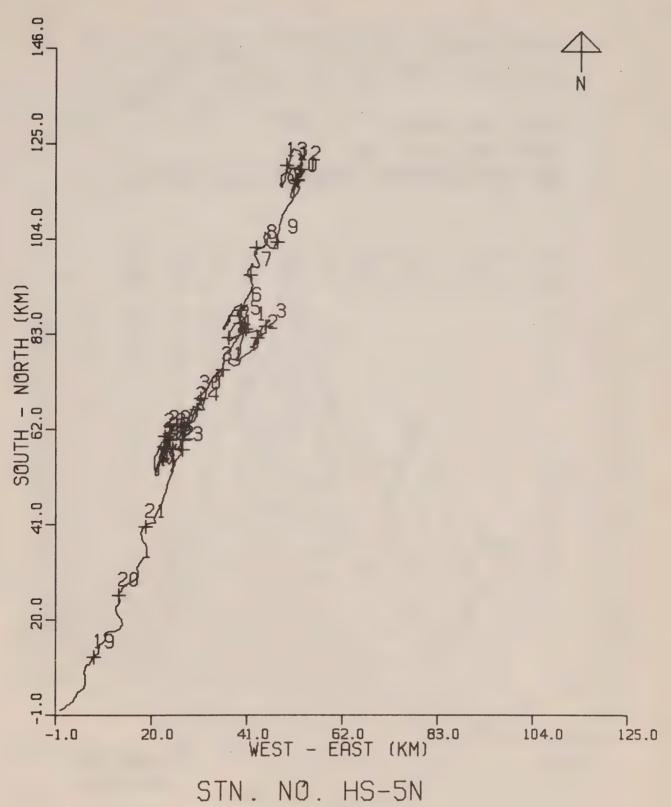
NO, OF SAMPLES OVER 17.00 = 3
NO. OF SAMPLES UNDER 9.80 = 0
TOTAL NO. OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-5N DEPTH 5M. START DATE 27/06/73

```
MEDIAN
     FREGINCY
               30
                     60
                           90
                                120
                                      150
(PPT)
     NO. PCT
10.22
     4
        0
10.66
      6
        0
          * *
     23
11.10
          *****
11.54
     24
          ******
        1
11,98
     29
        1
          ******
12.42
     48
          *******
        2
12.86
     55
        2
          ******
13.30
     54
        2
          *******
13.74
     48
          *****
        2
14.18
     49
        2
          *********
14.62
     57
        2
          *******
15.06
     62
        2
          **********
15.50
     8.0
        3
          *******
15.94
     46
        2
          *****
16,38
     62
        2
          ********
16.82
     57
        2
          ******
17.26
          *******
     64
        2
17.70
     71
        2
          *********
18.14
     97
        3
          ********
18.58
     98
        3
          *********
19,02
     79
        3
          *******
19,46
          *******
     69
        2
19,90
     74
          *********
        2
20.34
          **********
    112
20.78
    87
        3
          *******
21,22
     91
          *******
        3
21.66
     83
        3
          *********
22.10
          ********
    82
        3
22.54
          *********
    108
22,98
     97
        3
          *********
23.42
     99
        3
          *******
23,86
    112
          *********
        4
24.30
    138
        5
          ***********
24.74
    97
          *********
25,18
    109
         ********
        4
25,62
    140
        5
         *************
26.06
    141
         **************
26.50
    140
        5
         ***************
26.94
    62
         **********
27,38
     33
         *******
```

NO. OF SAMPLES OVER 27.60 = 0 NO. OF SAMPLES UNDER 10.00 = 13 TOTAL NO. OF OBSERVATIONS = 3000 SAMPLE INTERVAL = 10 MINUTES



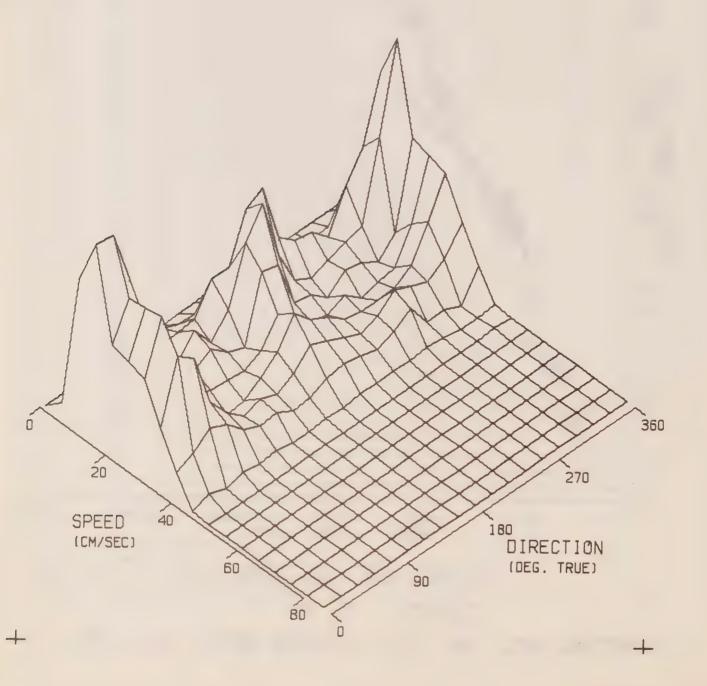
DEPTH 5 M.

STARTING DATE: 18/ 7/73 ENDING DATE: 13/ 8/73

+

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N DEPTH 5 M. STARTING DATE: 18/ 7/73
NO. OF SAMPLES = 3805



STN. NO. HS-SN DEPTH 5 M.

STARTING DATE: 18/ 7/73 SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

## SPEED

	000	080	160	240	320	400	480	560	640	720	800	880	
	TO												
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
0= 14	008	135	102	105	052	012							414
15= 29	006	152	118	114	075	008							473
30- 44	011	133	074	068	072	008							366
45- 59	013	055	057	038	056	011							230
60- 74	010	033	026	024	023	006							122
75- 89	001	018	011	013	024	005							72
90-104	006	015	017	010	013	007							68
105-119	005	025	032	007	018	005							92
120-134	014	021	014	007	009	003							68
135-149	005	022	016	016	012	004							75
150-164	007	034	013	024	014	002							94
165-179	010	052	034	031	018	002							147
180=194	006	057	064	041	032	004							204
195=209	016	096	056	033	022	010							233
210-224	013	086	025	150	023	005							173
225=239	006	045	016	018	014	003							102
240-254	003	027	013	012	014	006							75
255=269	200	050	005	014	015	005							61
270-284	001	019	010	009	024	009							72
285=299	003	028	012	011	030	005							89
300-314	001	016	013	016	012	001							59
315-329	006	040	010	020	014	001							91
330-344	010	072	026	034	017	_	001						160
345-359	007	108	059	066	023	200							265
													(, (,)
	170		823		626		1		0		0		3805
	1	309		752		124	•	0		0	,	0	2003

NO' OF SPEEDS EXCEEDING 960 MM/SEC = 0

## HISTOGRAM OF SPEED

# HOWE SOUND HS-5N DEPTH 5M. START DATE 18/07/73

```
120
MEDIAN
     FREGINCY
                 60
                              180 240
                                            300
     NO. PCT .
(MM/S)
  6
      0
         0
  18
      0
         0
 3.0
      - 1
         Λ
  42
     1.4
         0
           **
 54
     35
  66
     89
         2
           *****
     77
 78
           *******
           *********
 90
     185
         5
     203
 102
         5
           ********
 114
     241
           **********
 126
     199
           **********
 138
     193
         5
           ********
           ********
 150
     180
     179
 162
         5
           **********
 174
     154
 186
     131
         3
           *********
 198
     124
         3
           ******
 210
     117
         3
           **********
 222
     112
         3
           ******
     98
 234
 246
     8.1
         2
           ******
 258
     110
         3
           ******
 270
     97
           *****
     108
 285
         Z,
 294
    113
         3
 306
     126
         3
           ******
 318
     113
         3
           **********
 330
     140
           ********
     128
 342
         3
           *******
 354
     9.0
     91
 366
           ******
 378
     83
           *****
 390
     68
           *****
 402
     41
         1
           *****
 414
     33
 426
     25
           支索查查
 438
     1.1
         0
           * *
 450
      -8
         0
 462
      5
         0
 474
      1
```

NO. OF SAMPLES OVER 480 = 1
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 3805
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 5M. START DATE 18/07/73

```
MEDTAN
     FREDINCY
                   70
                         140
                                 210
                                        280
                                                350
(DEG.T) NO. PCT ..
  5
      298
            ***********
  15
      295
  25
     318
           ***********
  35
     255
           *********
  45
     190
  55
     136
          4
           ******
  65
     8.0
            ******
  75
      64
  85
      49
           ****
  95
      47
            *****
 105
      42
 115
     66
            *****
 125
     54
 135
      33
 145
      56
          1
            *****
 155
      71
 165
      66
 175
     113
            *********
 185
     147
           *******
     134
 195
            ********
 205
     158
     108
 215
           ******
     91
 225
            ********
 235
      7.0
            ******
 245
     40
 255
      59
 265
     33
 275
     43
            ****
 285
     69
 295
      47
            *****
 305
      41
 315
     47
            ****
 325
      68
            *****
 335
     87
     151
 345
            ********
     179
 355
          5
            ********
 365
      0
 375
       0
 385
       0
 395
       0
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 3805
SAMPLE INTERVAL = 10 MINUTES

#### HISTOGRAM OF TEMPERATURE

# HOWE SOUND HS-5N DEPTH 5M' START DATE 18/07/73

```
MEDTAN
     FREDINCY
                 50
                       100
                              150
                                     200
                                            250
(DEG.C) NO. PCT .
      1
11.29
11.47
      25
           ****
         1
    25
        . 1
11.65
11.83
     9.0
           ******
         >
12.01
     65
           *******
12.19
     63
           ********
12.37
     55
         1
           *******
12.55
     85
         2
           *********
12.73
     169
           *********
         -/1
12.91
     213
        6
           ************
13.09
     121
         3
           ********
13.27
     159
         Ш
           **********
13.45
           *********
     162
         4
13.63
     251
         7
           *************
13.81
    158
         /1
           *********
13.99
     194
           *********
14.17
     168
           *********
         71
14.35
     139
           **********
14.53
     1 4 1
         71
           *********
14.71
     104
         3
           ******
14,89
     138
           *********
15.07
     94
           ********
15,25
     109
         3
           *******
15.43
     146
         4
           *********
15,61
    130
         3
           *************
15.79
     148
           ********
         14
15,97
     121
         3
           *******
16.15
     97
         3
           *******
16.33
     64
           *****
16.51
     119
         1
           ******
16,69
     33
         1
           *****
16.87
     31
           *****
         1
17,05
     25
         1
17.23
     38
           *****
         1
17.41
     70
         2
           *****
17,59
     34
           ****
17.77
     24
           ****
17,95
     31
           ****
18.13
     20
           ***
18.31
      -5
```

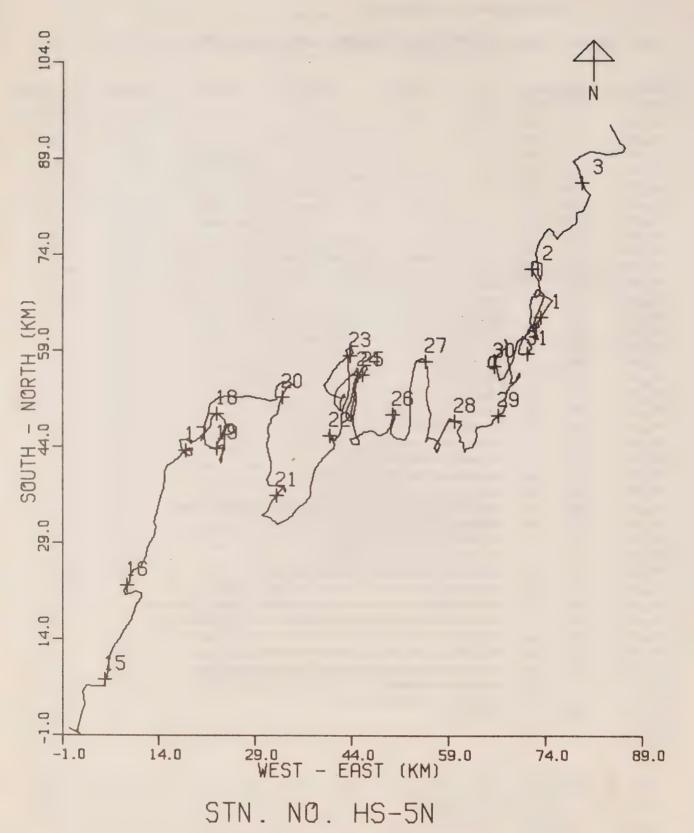
NO. OF SAMPLES OVER 18.40 = 13 NO. OF SAMPLES UNDER 11.20 = 0 TOTAL NO. OF OBSERVATIONS = 3805 SAMPLE INTERVAL = 10 MINUTES

# HISTOGRAM OF SALTNITY

HOWE SOUND HS-5N DEPTH 5M, START DATE 18/07/73

```
MEDTAN
      FREGINCY
                   70
                          140
                                 210
                                         280
                                                350
(PPT)
      NO. PCT
10.82
       2
          0
11.26
       3
          0
11.70
       6
          0
12.14
       8
          0
12.58
       4
          0
13,02
       6
          0
13.46
       2
          0
13.90
       8
          0
14.34
       6
          0
14.78
       11
          0
15.22
      22
          1
            ***
15.66
      26
          1
16,10
      35
          1
            ***
16.54
      54
          1
            *****
16.98
      60
          2
            *****
17.42
      57
          1
            *****
17,86
      56
          1
            *****
18,30
      69
          2
            ******
18,74
      84
          2
            *******
19,18
      86
            ******
19.62
      100
            *******
20.06
      118
          3
            ********
20.50
      148
            *******
          4
20.94
     141
          4
            ******
21.38
     236
            ********
21,82
     178
            ********
22.26
     152
          4
            ********
22.70
     144
          4
            *******
23.14
     174
          5
            ********
23.58
     210
            ********
24.02
     268
            **********
24.46
            *********
     251
24.90
     238
            *********
          6
25.34
     210
            ********
          6
25,78
     655
            *********
26.22
     224
           *******
26,66
     131
            ******
          3
27,10
      48
            ****
27.54
      0
          0
27.98
       0
          0
```

NO. OF SAMPLES OVER 28.20 = 0
NO. OF SAMPLES UNDER 10.60 = 0
TOTAL NO. OF OBSERVATIONS = 3805
SAMPLE INTERVAL = 10 MINUTES



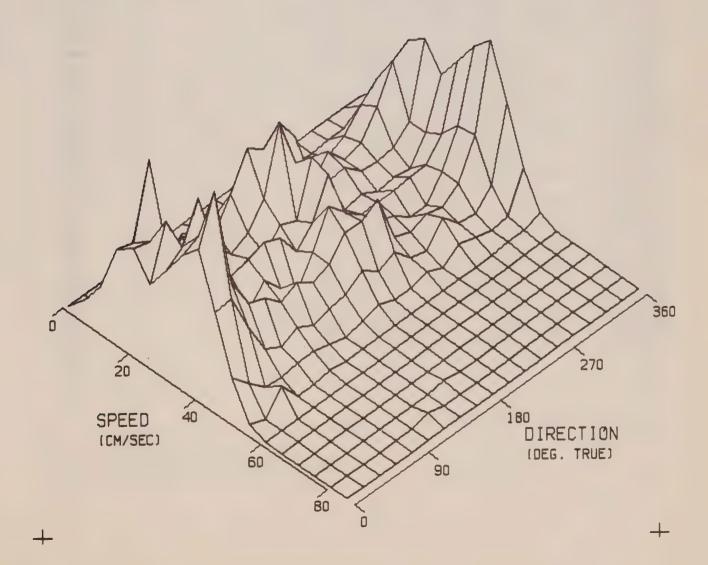
DEPTH 5 M.

STARTING DATE: 14/ 8/73 ENDING DATE: 3/ 9/73

+

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N DEPTH 5 M. STARTING DATE: 14/8/73
NO. OF SAMPLES = 2908



STN. NO. HS=5N DEPTH 5 M.

STARTING DATE: 14/ 8/73
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

## SPEED

	000	080 TO	160 TO	240 TO	320 TO	400 TO	480 TO	560 TO	640 TD	720 TO	800 TO	880 TO	
DIR	079	159	239	319	399	479	559	639	719	799	879		
0= 14	006	034	037	057	089	061	014	001					299
15- 29	001	021	054	063	066	069	005						279
30- 44	002	054	054	053	050	038	007	003					261
45= 59	003	039	025	053	038	020	003	200					183
60- 74	001	015	026	014	034	015	002						107
75- 89		022	010	019	016	010	200						79
90-104	001	022	025	015	021	015	005						104
105-119		016	016	055	019	016					001		90
120-134		016	018	035	011	008	002				001		91
135-149	004	021	012	015	010	011							73
150=164	002	034	024	018	018	014	001			001			112
165=179		055	059	018	027	017	005						145
180-194	006	038	039	027	030	016	002						158
195=209		033	046	039	032	013	001						164
210=224	003	027	020	016	025	021	001						113
225-239	003	021	017	013	013	010	002						79
240-254	001	009	012	008	008	004	001						43
255=269	005	012	013	008	010	003							48
270-284	001	005	009	006	005	012	004						42
285=299	001	009	005	005	003	011	001						35
300-314		010	008	010	006	005	005						41
315-329	005	055	011	010	016	005		001					67
330=344	003	030	014	017	055	011	001						98
345=359	004	035	039	035	039	037	008						197
	46	- 10m	593	-	608	44	66		0		5		290B
		567		576		442		7		1		0	

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 0

# HISTOGRAM OF SPEED

# HOWE SOUND HS-5N DEPTH 5M' START DATE 14/08/73

```
MEDTAN
    FREGINCY
                40
                      80
                           120
                                 160
                                        200
(MM/S)
    NO. PCT
  8
      ٥
        0
 24
      2
        0
 0.0
      6
        0
 56
     Q
        0
     29
 72
          *****
 88
     73
        3
          *****
 104
     87
          ******
 120
    111
          *******
 136
    136
          *********
 152
    160
          ***********
        6
 168
    137
          *********
 184
    147
        5
          ************
 200
    109
          *******
        4
 216
    113
          *******
 232
    116
        4
          *******
 845
     64
          *******
 264
     83
        3
          ******
 280
    121
          ********
 296
    139
        5
          *********
312
    140
          *********
 328
    131
          ********
344
    123
          ********
360
    121
        4
          ********
376
    135
        5
          **********
392
    134
          *********
        5
408
    102
          *******
424
    112
          *******
440
    91
        3
          ************
456
     63
          ********
472
    38
          *******
488
     35
        1
          *****
504
     16
          ****
520
     a
          * *
        0
536
     3
        0
552
     8
        0
          * *
568
     3
        0
584
     0
        0
600
     0
        0
616
     0
        0
632
     0
```

NO. OF SAMPLES OVER 640 = 3
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2908
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 5M. START DATE 14/08/73

```
50
                         100
                                150
                                        200
                                               250
MEDTAN
     FREGINTY
(DEG.T) NO. PCT
            ***********
  5
     222
  15
     196
          7
            *********
     174
  25
            **********
  35
     189
            ***********
          6
  115
     156
          5
            ********
  55
      96
          7
      7 1
  65
          2
            ******
  75
      68
          2
            ******
          2
  85
      44
      75
          3
  95
            *********
 105
      58
          2
            ****
 115
      56
          2
 125
      57
          2
            ******
 135
      62
          2
 145
      51
          2
            ******
 155
      70
          2
 165
      81
          3
 175
     117
          4
            *********
 185
      96
          7
 195
     118
          4
            ********
 205
      94
          3
            ******
 215
     78
          3
            ******
 225
      64
          2
            *****
 235
      47
          2
 245
      23
 255
      38
          1
            *****
      85
 265
 275
      85
 285
      26
 295
      25
            ****
 305
      26
          1
            ****
      34
 315
 325
      47
          2
            ****
 335
      65
          2
 345
     101
          3
            *******
 355
     127
          4
            ********
 365
      0
          0
 375
       0
          0
 385
       0
          0
 395
      0
          Λ
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2908
SAMPLE INTERVAL = 10 MINUTES

# HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 5M. START DATE 14/08/73

```
FREGINCY
MEDIAN
                30
                      60
                            90 -
                                 120
                                       150
(DEG.C) NO. PCT
11.28
     7
        0
11.44
      8
          ***
        0
11.60
     25
          *****
11.76
     39
          *******
11,92
     62
          **********
12.08
     83
         3
          *******
12.24
     63
          *******
12,40
     29
12.56
     64
          ******
        2
12.72
     68
          *******
12.88
     68
          *******
13.04
     73
          *******
13,20
     74
        3
          *******
13.36
     112
          **********
13.52
     127
          ***********
        4
13.68
    119
          **********
        4
13.84
     94
        3
          **********
14,00
     96
        3
          *********
14.16
     90
         *********
14.32
     78
        3
         ********
14,48
     122
          ************
        /1
14.64
          ***********
     129
        4
14.80
     77
          ********
        3
14.96
     118
          *********
15,12
     78
          *************
        3
15,28
     75
        3
          *******
15.44
          ******
     77
        3
15,60
     110
          *********
        4
15,76
    78
          *********
    107
15,92
          *********
16.08
     7.0
        2
          **********
16.24
    100
          *********
16.40
     70
          *********
16.56
     78
        3
          ***********
16,72
     3.1
          ******
        1
16,88
     56
          *******
17.04
     42
          ********
17.20
     68
        2
          *******
17,36
     27
        1
          *****
17.52
     8
       0
          * * *
```

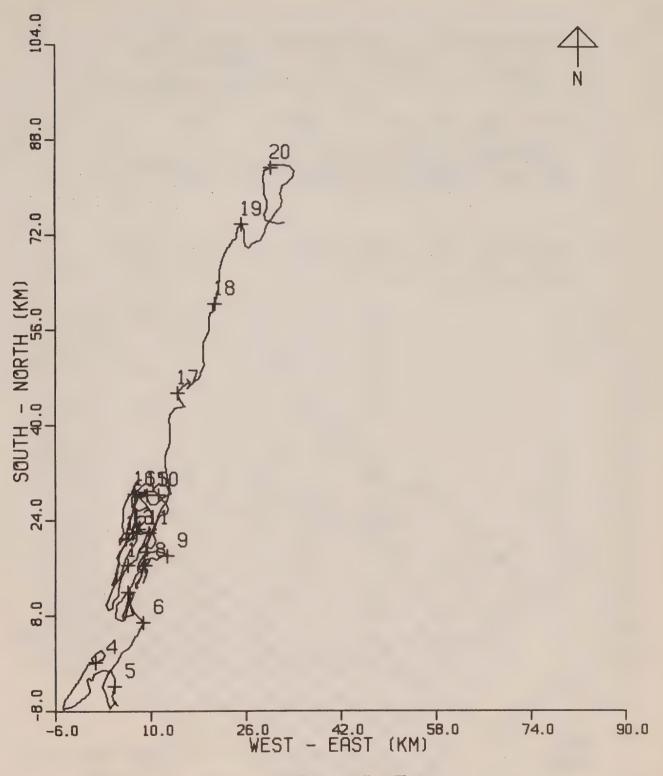
NO. OF SAMPLES OVER 17.60 = 8
NO. OF SAMPLES UNDER 11.20 = 0
TOTAL NO. OF ORSERVATIONS = 2908
SAMPLE INTERVAL = 10 MINUTES
4 RELEASED.

#### HISTOGRAM OF SALINITY

HOWE SOUND HS-5N DEPTH 5M START DATE 14/08/73

```
FREGINCY
MEDIAN
                  50
                         100
                                150
                                        200
                                               250
(PPT)
     NO. POT
12.30
      1
         0
12.70
       B
          0
       Q
13.10
13.50
13,90
          0
14.30
       A
          0
14.70
      8
            * *
          0
15,10
      14
          0
            ***
15.50
      4
          0
15.90
       5
          0
16.30
      6
          0
16.70
      13
          0
            ***
17,10
      23
17.50
      25
17,90
      40
            *****
18.30
      70
18.70
      73
            ******
19.10
            ******
      94
19,50
      68
            *******
19,90
      78
            *******
20.30
     103
            *******
20.70
      95
            ********
      29
21,10
            **********
21.50
     104
21,90
     92
            *******
22.30
     112
          4
            *******
22.70
     165
            ***********
23,10
     141
          5
            *********
23.50
     135
            ********
23.90
     129
          4
            ********
24.30
     127
            *******
          4
24.70
            **********
     154
          5
     194
25,10
            **********
         7
25,50
     138
            ********
25,90
     121
          11
            ********
26.30
     102
            *********
         41
26.70
     112
         4 ************
27,10
     126
         4 *************
27.50
     110
         4
            ********
27,90
     0
```

NO. OF SAMPLES OVER 28.10 = 0
NO. OF SAMPLES UNDER 12.10 = 1
TOTAL NO. OF OBSERVATIONS = 2908
SAMPLE INTERVAL = 10 MINUTES



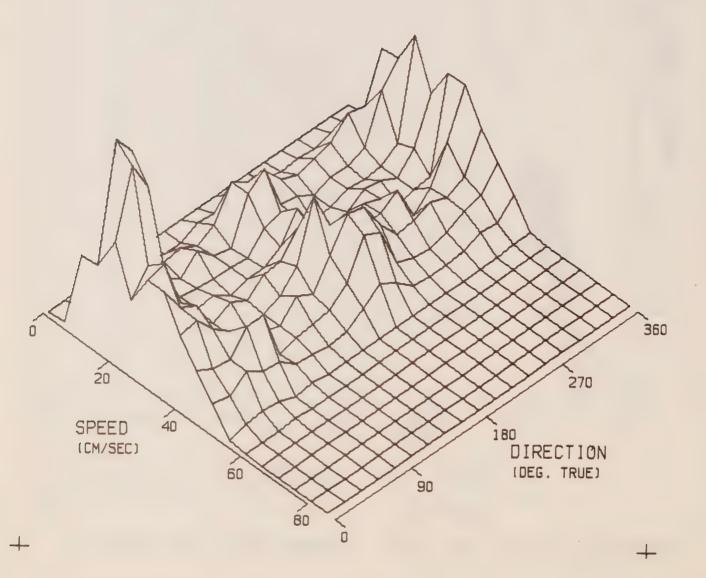
STN. NO. HS-5N

DEPTH 5 M.

STARTING DATE: 3/ 9/73 ENDING DATE: 20/ 9/73

FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N DEPTH 5 M. STARTING DATE: 3/ 9/73
NO. OF SAMPLES = 2426



STN. NO. HS-SN DEPTH 5 M.

STARTING DATE: 3/ 9/73 SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

## SPEED

DIR		000	080						560		720		880	
0 = 14		TO	TO	TO					TO	TO	TO	TO		
15- 29	DIR	079	159	239	319	399	479	559	639	719	799	879	959	
15- 29								,						
30= 44	7	47 10 41						008						
45= 59	W	005				-		008						
60= 74	-		047	071		-								236
75-89			-											
90=104 003 010 005 012 006 005 003 44 105=119 003 016 005 011 005 007 001 48 120=134 005 005 004 010 004 003 31 135=149 007 006 012 010 013 48 150=164 004 005 005 010 013 008 003 48 165=179 003 021 004 022 033 013 001 97 180=194 003 030 020 017 040 023 011 144 195=209 004 034 011 024 031 039 008 151 210=224 002 021 008 014 021 040 004 110 225=239 001 008 002 004 025 015 003 58 240=254 003 005 003 009 018 012 002 52 255=269 001 005 003 012 015 008 001 45 270=284 003 008 003 014 019 007 001 55 285=299 001 008 006 012 011 011 002 51 300=314 002 007 001 002 008 009 29 315=329 003 017 004 005 015 013 004 61 330=344 001 027 011 012 020 012 001 84 345=359 002 028 028 023 041 019 011 152		001	-			010	020	009	001					
105-119       003       016       005       011       005       007       001       48         120-134       005       005       004       010       004       003       31         135-149       007       006       012       010       013       48         150-164       004       005       005       010       013       008       003       48         165-179       003       021       004       022       033       013       001       97         180-194       003       030       020       017       040       023       011       144         195-209       004       034       011       024       031       039       008       151         210-224       002       021       008       014       021       040       004       110         225-239       001       008       002       004       025       015       003       58         240-254       003       005       003       012       015       008       001       45         270-284       003       008       003       014       019       007       00								007						7 1
120-134		003					005	003						
135-149		003	_											48
150-164						010		003						31
165=179       003       021       004       022       033       013       001       97         180=194       003       030       020       017       040       023       011       144         195=209       004       034       011       024       031       039       008       151         210=224       002       021       008       014       021       040       004       110         225=239       001       008       002       004       025       015       003       58         240=254       003       005       003       009       018       012       002       52         255=269       001       005       003       012       015       008       001       45         270=284       003       008       003       014       019       007       001       55         285=299       001       008       006       012       011       011       002       51         300=314       002       007       001       002       008       009       29         315=329       003       017       004       005       01							-							
180-194       003       030       020       017       040       023       011       144         195-209       004       034       011       024       031       039       008       151         210-224       002       021       008       014       021       040       004       110         225-239       001       008       002       004       025       015       003       58         240-254       003       005       003       009       018       012       002         255-269       001       005       003       012       015       008       001       45         270-284       003       008       003       014       019       007       001       55         285-299       001       008       006       012       011       011       002       51         300-314       002       007       001       002       008       009       29         315-329       003       017       004       005       015       013       004       61         330-344       001       027       011       012       020       0														
195-209	-	003	021	004			013							
210-224 002 021 008 014 021 040 004 110 225-239 001 008 002 004 025 015 003 58 240-254 003 005 003 009 018 012 002 52 255-269 001 005 003 012 015 008 001 45 270-284 003 008 003 014 019 007 001 55 285-299 001 008 006 012 011 011 002 51 300-314 002 007 001 002 008 009 29 315-329 003 017 004 005 015 013 004 61 330-344 001 027 011 012 020 012 001 84 345-359 002 028 028 023 041 019 011 152	180=194	003	030	020		- ·-	023	011						
225-239	195-209	004	034	011			039	008						
240-254 003 005 003 009 018 012 002 52 255-269 001 005 003 012 015 008 001 45 270-284 003 008 003 014 019 007 001 55 285-299 001 008 006 012 011 011 002 51 300-314 002 007 001 002 008 009 29 315-329 003 017 004 005 015 013 004 61 330-344 001 027 011 012 020 012 001 84 345-359 002 028 028 023 041 019 011 152	210-224						040	004						
255-269		001	008	005	004			003						
270-284 003 008 003 014 019 007 001 55 285-299 001 008 006 012 011 011 002 51 300-314 002 007 001 002 008 009 29 315-329 003 017 004 005 015 013 004 61 330-344 001 027 011 012 020 012 001 84 345-359 002 028 028 023 041 019 011 152	240-254	003												
285=299	255-269	001	005	003	012	015	008	001						
300-314 002 007 001 002 008 009 29 315-329 003 017 004 005 015 013 004 61 330-344 001 027 011 012 020 012 001 84 345-359 002 028 028 023 041 019 011 152	270-284	003	-	003				001						
315-329 003 017 004 005 015 013 004 61 330-344 001 027 011 012 020 012 001 84 345-359 002 028 028 023 041 019 011 152	285=299	001		006			011	005						
330-344 001 027 011 012 020 012 001 345-359 002 028 028 023 041 019 011 152 47 417 509 114 0 0 2426	300=314	002	007	001	005	008	009							29
345-359 002 028 028 023 041 019 011 152 47 417 509 114 0 0 2426	315-329	003	017	004	005		013	004						61
47 417 509 114 0 0 2426	330=344	001	027	011	012	020	012	001						84
	345-359	200	028	028	023	041	019	011						152
500 424 414 1 0 0		47		417		509		114		0		0		2426
			500		424		414		1		0		0	

NO' OF SPEEDS EXCEEDING 960 MM/SEC = 0

#### HISTOGRAM OF SPEED

# HOWE SOUND HS-5N DEPTH 5M' START DATE 03/09/73

```
MEDTAN
    FREGINCY
                30
                      60
                            90 120
                                        150
    NO. PCT .
(MM/S)
  A
      0
        0
 24
      0
        n
 40
     3
     15
 56
 72
     29
        1
 AR
     49
        2
          **********
 104
     83
        3
          ********
 120
    117
          **********
        5
    123
 136
        5
          **********
 152
    128
        5
          ************
 168
     22
        71
          *********
 184
     92
          *********
        /1
 200
    109
          *********
 216
     91
        4
          ********
 232
     51
        2
 248
     63
        3
          *******
          *******
 264
     85
        71
 280
     84
        3
          ********
 296
     80
        3
          *********
     98
 312
        71
          **********
 328
     93
        4
          ********
 344
    120
        5
          **********************
    108
          *********
 360
        45
 376
    117
          **********
 392
     20
          ********
408
     73
        3
          *********
424
     82
        3
          ********
440
     76
        3
          **********
456
     91
          ********
472
     70
        3
URA
     52
          *********
504
     114
          *********
520
     7
        ñ
536
     8
        0
          ***
552
     3
        0
568
     0
        0
584
     0
600
     1
        0
616
     0
        0
632
        0
```

NO. OF SAMPLES OVER 640 = 0 NO. OF SAMPLES UNDER 0 = 0 TOTAL NO. OF OBSERVATIONS = 2426 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 5M. START DATE 03/09/73

```
MEDIAN FREGINCY
                    50
                          100 150
                                          200
                                                  250
(DEG.T) NO. PCT .
  5
      208
  15
      182
  25
      192
             *********
  35
      149
         6 ***********
     148
  45
  55
     93
         4 ***********
  65
      60
          2 ********
  75
      42
  85
      47
 95
      32
 105
      27 . 1
 115
      31
            ****
 125
      21
 135
      3.1
 145
      29
             ****
 155
      31
 165
      41
            *****
 175
      80
          3
            *****
 185
      94
 195
      108
         4 ***********
 205
      95
          4
            *****
 215
      78
            ********
 225
      52
            *****
 235
      30
 245
      39
          2
            *****
 255
      27
             ****
 265
      29
 275
      39
            *****
 285
      33
             *****
 295
      36
            ****
          1
 305
      17
          1
 315
     28
 325
      48
            ******
 335
      419
            *******
      79
 345
            **********
 355
      101
            ***********
     0
 365
 375
       0
 385
 395
```

NO' OF SAMPLES OVER 400 = 0 NO' OF SAMPLES UNDER 0 = 0 TOTAL NO. OF OBSERVATIONS = 2426 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 5M' START DATE 03/09/73

```
MEDIAN FREGINCY
                 40
                         80
                               120
                                      160
                                             200
(DEG.C) NO. PCT .
    0
10.27
        0
10.41
     12
         0 ***
10.55
      3.7
         2 *******
      58
10.69
         2
           *********
10.83
      52
         2
           *******
10.97
      65
         3
           *****
11,11
      75
         3
           *******
11.25
      94
           *********
         4
      95
11.39
           **********
         4
11.53
      95
         4
           ********
           ***********
11.67
     134
         6
11.81
     127
         £5
           *********
11.95
     112
         5
           ********
12.09
     140
         6
           ********
12.23
     100
           ********
         4
12.37
     78
         3
           *********
12.51
      88
           *********
         4
12.65
      72
         3
           *******
      86
12.79
         4
           *******
12.93
      94
           ********
         4
13.07
      73
           ******
         3
13.21
      77
         3
           *********
13,35
      AZ
         3
           *******
      56
13.49
         2
           *****
13.63
      73
         3
           *******
13.77
      75
         3
           ***********
13,91
      93
         4
           *******
14.05
      8.0
         3
           ***********
14,19
      46
         2
           *******
14.33
      23
         - 1
           ****
14.47
      1.6
         - 1
           ***
14.61
      20
         1
           ****
14.75
     1.7
         1
14,89
      25
         1
           *****
15.03
     16
         1
           ****
15.17
     1.1
         0 ***
15.31
      6
         0
           **
15.45
      3
         0
15.59
         0 **
      7
15.73
      10
         0
           **
```

NO. OF SAMPLES OVER 15.80 = 2 NO. OF SAMPLES UNDER 10.20 = 0 TOTAL NO. OF OBSERVATIONS = 2426 SAMPLE INTERVAL = 10 MINUTES

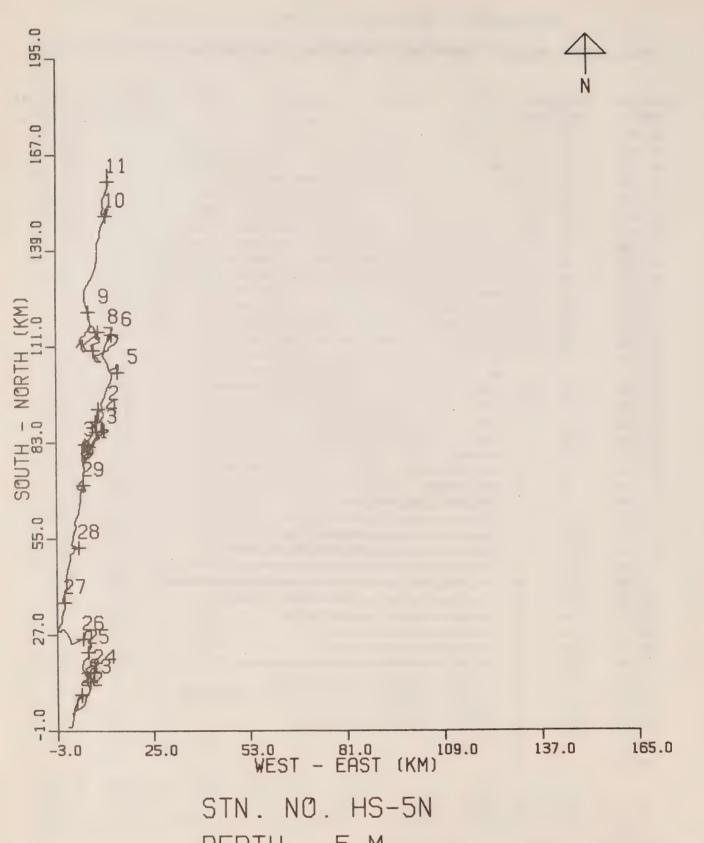
#### HISTOGRAM OF SALTNITY

# HOWE SOUND HS=5N DEPTH 5M' START DATE 03/09/73

```
MEDIAN
      FREGINCY
                     60
                             120
                                     180
                                             240
                                                     300
(PPT)
      NO. PCT .
15,57
        0
           0
15,91
        5
           0
16,25
        3 0
16.59
        0
           0
16.93
       1
           0
17,27
       0
          0
17,61
        0
           0
17,95
       1
           0
18.29
        0
           0
18,63
        4
           0
18.97
        6
           0
19,31
       1.0
           0
19,65
       3
           0
19,99
        1
           0
        7
20.33
           0
20.67
       4
           0
21.01
       12
           0
              **
       ()
21,35
           0
              str. str.
21.69
       11
           0
              **
22.03
       55
           4
22.37
       26
           1
22,71
       52
           5
              *****
23.05
       50
           2
              *****
23.39
      103
           4
              ******
23,73
      104
           4
              **********
24.07
      145
           6
              ********
24.41
      162
           7
              ********
24.75
      164
           7
              ********
      213
25.09
           9
              ***********
25.43
      169
           7
              ********
25,77
      129
           5
              *******
26.11
      103
           4
              *********
26,45
      109
           4
              ***********
           7
26.79
      164
27,13
      138
              **********
           6
27,47
      197
           8
              ********
27.81
      133
           5
              ******
28,15
      123
           5
              ******
28.49
           2
       43
              ****
28.83
      - 0
```

NO. OF SAMPLES OVER 29.00 = 0
NO. OF SAMPLES UNDER 15.40 = 0
TOTAL NO. OF OBSERVATIONS = 2426
SAMPLE INTERVAL = 10 MINUTES

C3 RELEASED.

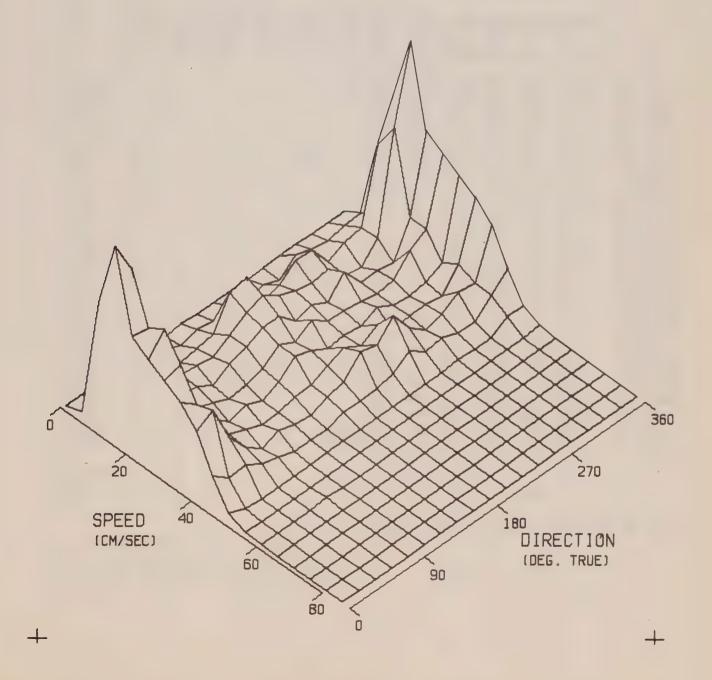


DEPTH 5 M.
STARTING DATE: 21/ 9/73 ENDING DATE: 11/10/73

+

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N DEPTH 5 M. STARTING DATE: 21/9/73 NO. OF SAMPLES = 2878



STN. NO. HS=5N DEPTH 5 M.

STARTING DATE: 21/ 9/73
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

## SPEED

	000	080 TO	160 TO	240 TO	320 TO	400 TO	480 TO	560 TO	640 TO	720 TO	800 TO	880 TO	
DIR	079	159	239	319	399	479		639	719	799	879	959	
0= 14	001	126	109	091	074	032	002						435
15= 29	003	087	103	086	063	031	17 10 800						373
30- 44	005	068	035	850	037	024							197
45= 59	005	036	030	019	026	010							126
60- 74	005	030	020	016	008	010							89
75= 89	005	009	010	010	009	003		001					47
90-104	004	012	004	006	006	005							37
105=119	004	007	011	008	004	003						001	38
120-134	005	019	013	009	004	001							48
135-149	005	015	150	012	007								60
150-164	003	034	014	017	005	003							76
165-179	003	053	030	920	011	009							132
180-194	003	025	050	020	013	006							87
195-209	001	014	020	014	021	013							83
210-224	005	016	018	010	017	007							73
225=239	001	015	005	015	020	150							77
240-254		034	017	013	024	014							102
255=269	010	017	017	016	006	012							78
270-284	006	001	005	013	007	009	001						42
285=299	005	007	006	006	006	005							35
300-314	003	008	006	017	009	007							50
315=329	004	012	010	012	010	008	00/						59
345=359		067	073	016	011	010	004						146
242-124	010	144	0/3	050	052	027	008						364
	100		631		450		15		0		0		2854
		856		530		270		1		0		1	

NO OF SPEEDS EXCEEDING 960 MM/SEC = 24

### HISTOGRAM OF SPEED

HOWE SOUND HS-SN DEPTH SM. START DATE 21/09/73

```
MEDTAN
     FREGINCY
                   50
                         100
                                 150
                                        200
                                               250
     NO. PCT
(MM/S)
  7
       0
          0
  21
       2
          0
  35
      11
          0
           * *
  49
      24
          1
  63
      85
          1
  77
      64
  91
     114
            ********
 105
     120
            *********
     219
 119
            ***********
 133
     161
            *********
 147
     169
 161
     125
            **********
 175
     103
            ***********
 189
     143
            ********
 203
     .84
          3
            ******
 217
     127
            ********
      93
 231
          3
            ******
 245
      96
          3
            ******
 259
     109
      91
 273
          3
            *******
 287
      83
            *******
          3
 301
      61
 315
     122
            ********
 329
      78
          3
 343
      64
          2
            *****
 357
      87
          3
            *****
 371
      50
 385
     110
            ******
 399
      73
            *****
 413
      55
          2
      83
 427
          3
            **********
 441
      40
 455
      39
          1
            *****
 469
       8
          0
 483
       5
          0
       7
 497
          0
 511
       1
          0
 525
       3
          0
 539
       0
          0
 553
```

NO. OF SAMPLES OVER 560 = 26 NO. OF SAMPLES UNDER 0 = 0 TOTAL NO. OF OBSERVATIONS = 2878 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 5M. START DATE 21/09/73

```
350
                                          280
                          140 210
                   70
      FREGINCY
MEDIAN
(DEG.T) NO. PCT .
            ****************
  5
      328
         1.1
            **********
  15
      283
          1.0
            *******
  25
      216
      128
            ******
  35
     109
            *********
  45
      82
          3
  55
      63
            ******
  65
  75
      36
     33 1 ****
  85
      23
  95
      33
 105
 115
      20
 125
      33
             ****
 135
      41
 145
      35
 155
      40
      92
 165
          3
            *****
 175
      81
          3
            *******
      57
 185
          2 ******
      50
          2
            *****
 195
            *****
 205
      58
 215
      55
          2
            *****
 225
       46
          *****
      57
 235
          ******
       67
            ******
          2
 245
       68
 255
 265
      45
            ****
 275
       27
             ***
 285
       26
      21
 295
             ***
      31
 305
            ****
 315
      37
 325
      49
      79
 335
 345
      191
          7 **************
 355
      238
             **********
 365
       0
           0
 375
        0
           0
 385
        0
           0
 395
        0
           0
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2878
SAMPLE INTERVAL = 10 MINUTES

### HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 5M. START DATE 21/09/73

```
FREGINCY
MEDIAN
                              120
                      60
                                                240
                                       180
                                                         300
(DEG.C)
      NO. PCT
10.65
       16
            1
10.75
       12
            0
10.85
       34
               ****
       85
10.95
               ****
11.05
       18
            1
11,15
       37
            1
11,25
       62
            2
               ******
11,35
       74
               *******
            3
11,45
               *******
       150
            5
11.55
       122
               *******
11,65
            5
               ********
      147
11,75
       216
            8
               *********
11,85
               ***********
       257
            9
11,95
       187
            6
12.05
       165
               *********
            6
12,15
       242
            8
               ***********
12,25
       189
            7
               ***********
12,35
       143
            5
               *********
12,45
       153
            5
12.55
       142
               *******
            5
12,65
       102
            4
               ******
12,75
       71
            2
12,85
       56
               *****
12,95
            3
       88
13.05
        23
13,15
        17
               * * *
            1
13,25
        11
            0
13,35
        17
            1
               * * *
13,45
        12
            0
               * *
13,55
        12
            0
               * *
13,65
        9
               * *
            0
13,75
        6
            0
13,85
        7
            0
13,95
        10
            0
               **
14.05
        14
            0
               * *
        12
               * *
14.15
            0
14,25
        10
            0
               **
14.35
        1
            0
14.45
        2
            0
14.55
        1
            0
```

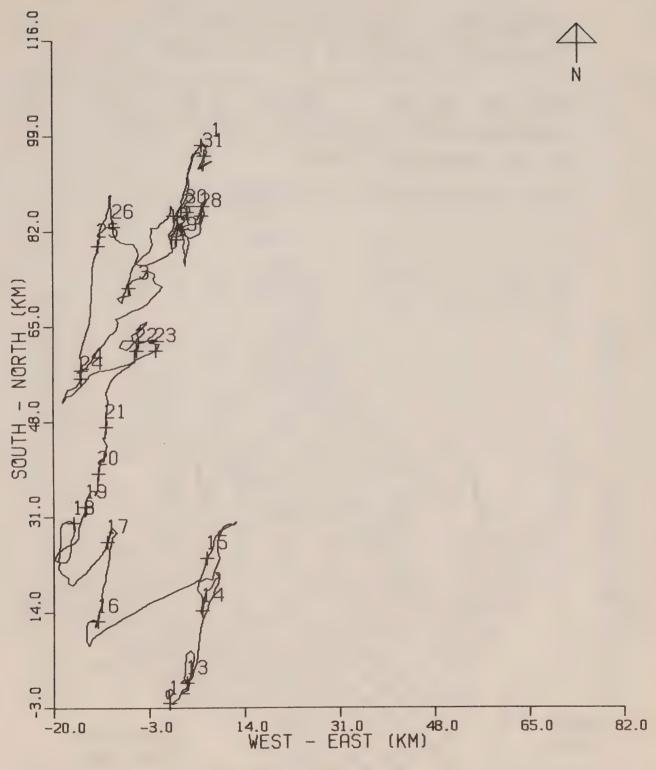
NO. OF SAMPLES OVER 14.60 = 0
NO. OF SAMPLES UNDER 10.60 = 3
TOTAL NO. OF OBSERVATIONS = 2878
SAMPLE INTERVAL = 10 MINUTES
RELEASED.

## HISTOGRAM OF SALINITY

HOWE SOUND HS-5N DEPTH 5M. START DATE 21/09/73

```
200
                               120
                                      160
                         80
     FREGINCY
                  40
MEDTAN
     NO. PCT
(PPT)
21.29
     16
21.47
      20
         1
           ****
21.65
      26
         1
           *****
21.83
      40
         1
      19
10.55
22.19
      16
         -1
22.37
      85
           *****
         1
22.55
      31
           *****
         -1
22.73
      20
         1
           *****
22.91
      85
         1
23.09
      35
         1
           *******
23.27
      48
         2
           ********
      56
23.45
           *******
23.63
      29
         1
         2
           ******
23.81
      56
23.99
      65
           **********
24.17
      67
           ******
      74
24.35
         3
           ******
24.53
      54
           *******
24.71
      61
         2
           **********
24.89
     101
           ************
     106
           *********
25.07
25,25
           *******
     112
         4
25.43
         4
           ********
     110
25,61
     146
         5
           **********
25.79
     145
         5
           ********
25.97
     145
           **********
           *********
26.15
     134
         5
26.33
         5
           ***********
     145
26.51
     163
           **********
         6
26.69
         5
           **********
     146
26,87
     125
           ************
27.05
           **********
     130
         5
27.23
     118
           ********
27.41
      84
         3
           ******
27.59
      57
           *****
27.77
      31
         1
27,95
      48
         5
            ******
28,13
      55
         1
            ****
28.31
      5
         0
```

NO. OF SAMPLES OVER 28.40 = 0 NO. OF SAMPLES UNDER 21.20 = 16 TOTAL NO. OF OBSERVATIONS = 2878 SAMPLE INTERVAL = 10 MINUTES



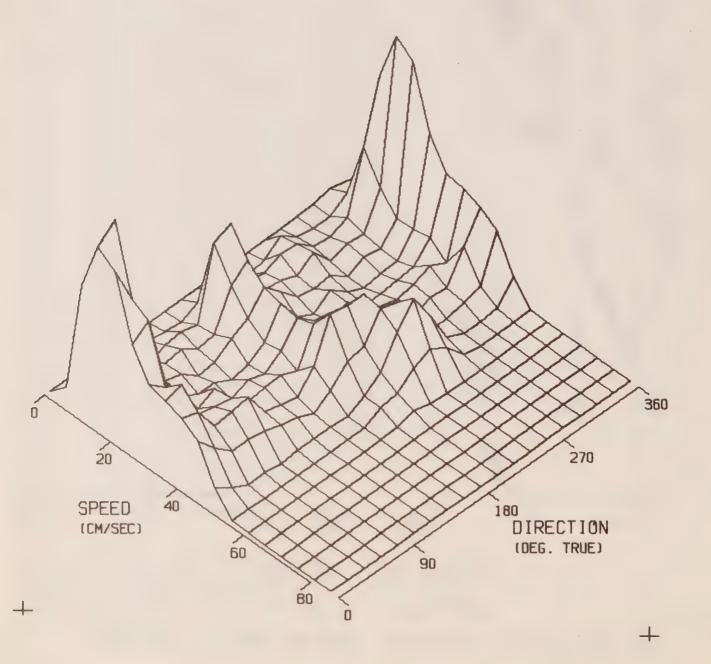
STN. NO. HS-5N

DEPTH 5 M.

STARTING DATE: 11/10/73 ENDING DATE: 4/11/73

FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N DEPTH 5 M. STARTING DATE: 11/10/73
NO. OF SAMPLES = 3425



STN. NO. HS=5N DEPTH 5 M.

STARTING DATE: 11/10/73 SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

## SPEED

	• • •			nm 11 ==	em 13								
	000	080	160	240	320	400	480	560	640	720	800	880	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	.079	159	239	319	399	479	559	639	719	799	879	959	
0-14	018	146	147	094	068	061	016						550
15** 29	006	139	112	069	057	0.30	005						418
30= 44	001	066	042	031	036	016							192
45 = 59	003	033	016	017	030	018							117
60- 74	004	013	055	021	025	059	002						113
75= 89	003	008	014	014	023	026							88
90-104	004	012	009	005	008	014	001						53
105-119	002	007	006	010	011	011							47
120=134	004	009	006	005	015	007							46
135=149		010	013	006	012	004	001						46
150=164	005	046	018	007	006	010							92
165=179	010	090	043	040	036	034	001						254
180-194	005	030	035	022	036	033	013	004					175
195=209		016	016	016	049	030	012	005					144
210=224	001	016	021	011	031	036	025	200					143
225=239		010	007	008	029	066	045	009					174
240-254	006	017	014	016	016	024	037	004					134
255=269	009	015	010	007	009	024	029	001					104
270=284	004	004		002	009	005	008						32
285-299		003	006	005	011	004	001						30
300-314	003	006	002	002	011	006	001						31
315=329	001	010	004	008	016	010							49
330=344	010	027	009	018	008	017							89
345=359	019	098	074	042	037	032	002						304
	115		646		589		199		0 -		0		3425
		831		476		544		25		0		0	

NO. OF SPEEDS EXCEFDING 960 MM/SEC = 0

### HISTOGRAM OF SPEED

HOWE SOUND HS-5N DEPTH 5M. START DATE 11/10/73

```
FREGINCY
               5.0
                  .100
                          150
                                200
                                       250
MEDTAN
(MM/S)
    NO. PCT .
     0 . 0
 8
     19
 24
        1
         ***
 40
     1.1
         + +
 56
     32
         *****
    53
 72
          *******
    144
 88
          *********
 104
    163
        5
          *********
 120
    215
          ***********
    149
          *********
 136
        5
          **********
 152
    160
 168
    166
          *********
 184
    139
          ******
 200
    120
        4
          ********
 216
    138
          **********
    112
 232
        3
          *********
    71
 248
 264
    106
          *******
    93
 0.85
        3
          ******
    82
 296
        2
          ******
    95
          ******
 312
        3
 328
    99
        3
    125
 344
          *******
    132
          **********
 360
    131
 376
        4
          *******
 392
    130
        4
          *********
 408
    96
        3
          **********
 424
    132
          ********
    119
 440
        3
 456
    90
        3
          ***********
     79
 472
          *********
 488
    64
     43
 504
        1
 520
     45
     27
 536
          ****
        1
 552
     27
        1
          ****
 568
     12
        0
 584
     4
        0
     1
 600
        0
 616
     - 1
        0
 632
     0
```

NO. OF SAMPLES OVER 640 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 3425
SAMPLE INTERVAL = 10 MINUTES

### HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 5M. START DATE 11/10/73

```
MEDIAN FREQUNCY
                  90 180 270 360
                                              450
(DEG.T) NO. PCT .
     404 12
  5
     356
        10
  15
            **********
     225
  25
         7
     144
  35
            *********
  45
     83
          2
  55
      72
          2
      75
          2
  65
          2
  75
     67
  85
      57
          2
 95
      37
      35
 105
     29
 115
            **
 125
     32
            ***
 135
      25
          1
      33
            ***
 145
          1
      53
          2
 155
            ****
 165
     118
          3
           *****
 175
     183
          5
            *******
     120
 185
          3
 195
     104
            ******
     95
 205
          3
            *****
 215 93
          3 *******
    108
 225
          3
            ******
 235
     113
          3
            *******
     95
 245
          3
            *****
 255
     78
          2
            *****
     60
 265
          2
 275
      24
            ***
          1
 285
     13
 295
     24
            ***
          1
      2.2
            **
 305
          1
     29
          1 ***
 315
      27
 325
          1
            ***
 335
     61
          2
            ****
 345 124
         4 ********
            ******
 355
     207
          6
      0
 365
 375
       0
          0
 385
       0
          0
 395
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 3425
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 5M. START DATE 11/10/73

```
480
                       120
                                240
                                          360
                                                            600
MEDIAN
       FREGINCY
(DEG.T) NO. PCT
7,56
        - 3
             Ω
7.68
        30
             1
        59
7.80
7.92
        54
            1
8.04
        93
             2
        67
             2
8,16
8.28
        72
8.40
        67
             2
8.52
        61
        55
8.64
8.76
        21
             1
8.88
        21
            1
9.00
        5
            0
9,12
        6
             0
9.24
        16
9.36
        14
             0
9,48
        43
             1
9.60
        85
             2
9.72
        70
             2
9.84
       133
            3
9.96
       341
            9
              ********
            24
       059
               *************
10.08
10.20
       121
            3
10.32
       127
              *****
             3
               ******
10.44
       139
10.56
       321
              ********
10.68
       259
             7
               *******
10.80
       120
             3
10.92
       40
               ***
             1
11.04
        31
             1
11.16
        95
             2
               *****
11.28
        82
               ****
11,40
        36
             1
               ***
11,52
       42
            1
11.64
       16
             0
11.76
       203
             5
               *********
11.88
        44
             1
               ***
12.00
        0
             0
12.12
         0
             0
12.24
```

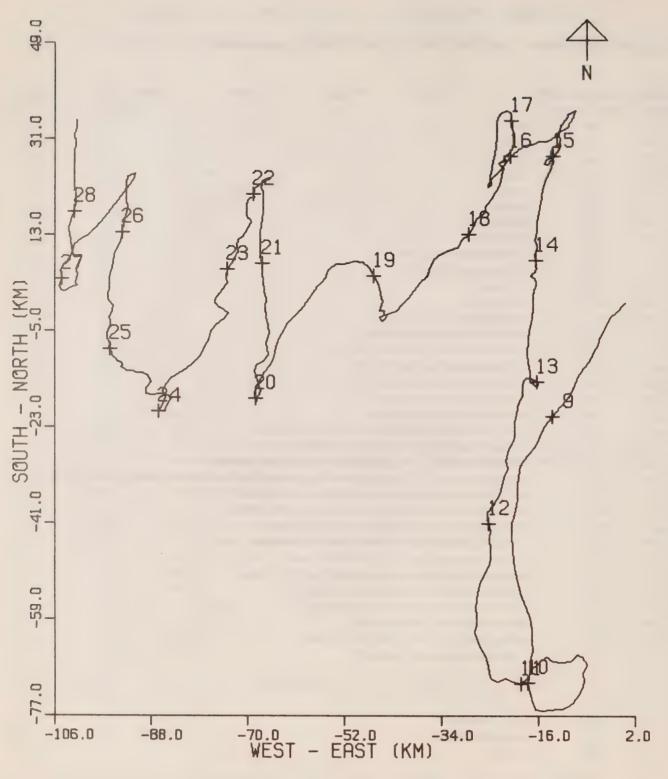
NO. OF SAMPLES OVER 12.30 = 0
NO. OF SAMPLES UNDER 7.50 = 0
TOTAL NO. OF UBSERVATIONS = 3912
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

## HOWE SOUND HS-5N DEPTH 5M. START DATE 11/10/73

```
MEDIAN
     FREGINCY
                  60
                         120
                                180
                                       240
                                              300
(PPT)
     NO. PCT
19.73
      15
          0
19,99
      15
            * * *
          0
20,25
      14
            * *
          0
20,51
      11
            * *
          0
20.77
      21
         1
            ***
21.03
      32
         1
            ****
21.29
      29
            ****
         1
21,55
      27
            ****
         1
21.81
      81
         2
            *****
      79
22.07
          2
            ********
22.33
      32
         1
            ****
22.59
      43
         1
            *****
22,85
      81
            *******
          2
23.11
     100
         3
            *********
            ********
23,37
     117
         3
23,63
     110
         3
            ********
23,89
     100
         3
            *******
24.15
     92
          2
            *********
24.41
     96
            ********
24.67
            ********
     166
         4
24.93
     143
            *******
          4
25.19
     194
         5
            ********
25,45
     307
            ***************
          8
25.71
     181
          5
            *********
25,97
     185
            ********
          5
26.23
     153
         4
            *******
26.49
     165
         4
            ********
26.75
     151
            *********
         4
27.01
            ********
     181
         5
27.27
     149
            *********
27,53
     137
         4
            *******
27.79
     107
         3
            ********
28,05
     141
         4 ************
28,31
     110
         3
            ******
28.57
     89
         2
            *********
28,83
     71
         2
           ******
29.09
     46 1
           *****
29.35
     45
         1
            ****
29.61
      60
         2
            *****
29.87
      25
         1
```

NO. OF SAMPLES OVER 30.00 = 0
NO. OF SAMPLES UNDER 19.60 = 11
TOTAL NO. OF OBSERVATIONS = 3912
SAMPLE INTERVAL = 10 MINUTES
ELEASED.



STN. NO. HS-5N

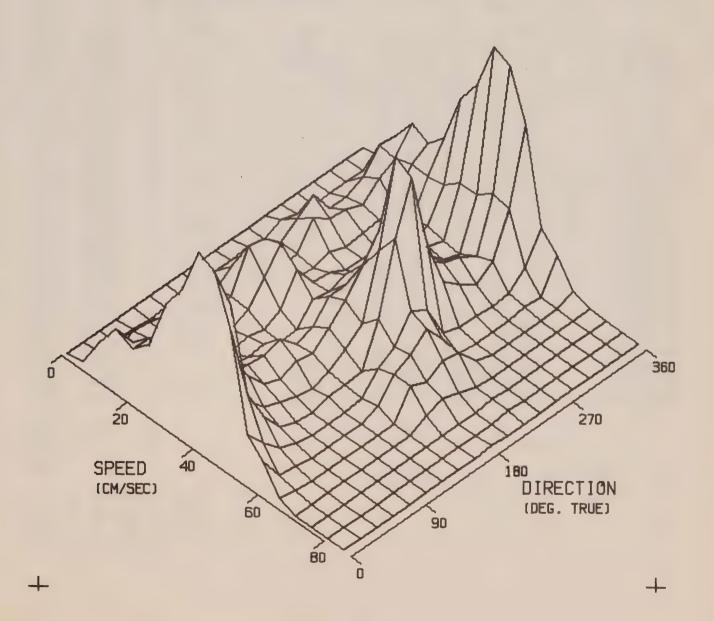
DEPTH 5 M.

STARTING DATE: 8/11/73 ENDING DATE: 28/11/73

+

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N DEPTH 5 M. STARTING DATE: 8/11/73
NO. OF SAMPLES = 2871



STN. NO. HS=5N DEPTH 5 M.

STARTING DATE: 8/11/73 SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

## SPEED

DIR	000 TO 079	080 TO 159	TO	TO	320 TO 399	400 TO 479	10	560 TO 639	TO	720 TO 799	800 TO 879	10	
0= 14 15= 29	004	018 011	034	062	107	102	060	023					410 220
30= 44 45= 59 60= 74	001	016 011 014	006	015 008 005	024 013 019	029 011 016	016 007 002	003					109 56 70
75= 89 90=104 105=119		011	014	008	008	006 005 001	001						48 26 24
120=134 135=149 150=164	001	005	003	003	015		002	003	011				33 28 81
165=179 180=194 195=209	001	031	043	014	014 027 019	017 027 053	016 036 053	020	006 015		001		162 147
210-224 225-239 240-254	004	004	002	010	n27 n25	084 102	069 057	015	0.05	n 0 1	001		180 223 224
255=269 270=284	200	009 020 013	003	005	019	052 020 017	012 014 018		001				109 75 63
285=299 300=314 315=329		007 005 018	004	004	012	018 012 009	004	001					49 39 57
330=344 345=359	001	024	018	020	024	030	040	002					141
	55	298	263		530	809		135		1	2	0	8888

NO. OF SPEFOS EXCEEDING 960 MM/SEC = 3

### HISTOGRAM OF SPEED

## HOWE SOUND HS-5N DEPTH 5M START DATE 08/11/73

```
MEDTAN
     FREGINCY
                  50
                        100
                               150
                                      200
                                             250
     NO. PCT .
(MM/S)
 1.1
      0
         0
      1
  33
         0
  55
      - 5
  77
      36
         1
           *****
 99
     69
      91
 121
           *****
 143
     108
         4
           ***********
 165
      72
 187
      74
         3
           *********
    . 89
 209
         3
           ***********
      54
 231
      57
 253
         2
           ******
 275
      63
 297
      58
         3
           *****
 319
      93
         3
           ******
 341
     167
           *********
 363
     146
         5
           ********
 385
     183
           **********
     187
           **********
 407
 429
     176
           **********
 451
     262
           **********
     224
 473
           **********
 495
     198
           ***********
 517
     152
         5
           *********
 539
     73
         3
           *********
 561
      40
      35
 583
 605
      43
 627
      33
           *****
      24
 649
         1
           ****
 671
      15
 693
      14
 715
      2
 737
      0
         0
 759
      1
 781
 803
      1
         0
 825
      0
         n
 847
      0
         0
 869
```

NO. OF SAMPLES OVER 880 = 3 NO. OF SAMPLES UNDER 0 = 0 TOTAL NO. OF OBSERVATIONS = 2871 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 5M START DATE 08/11/73

```
280
                    70 140
                                    210
                                                    350
MEDIAN
      FREGINCY
(DEG.T) NO. PCT
             5
      327 11
      190
  15
           7
  25
      125
           Д
      72
           3
  35
  45
       49
           2
       36
  55
           1
             ****
  65
       48
           2
       45
           2
  75
  85
       24
             ***
       17
  95
             * *
           1
 105
       19
             * * *
           1
       13
             **
 115
           0
       26
             ***
 125
 135
       15
           1
             专业
 145
       20
           1
       50
           2
 155
             ****
       78
           3
 165
 175
      120
           4
             ******
             *****
 185
      94
           3
 195
      111
           5
 205
      138
             ******
           5
 215
      139
             *****
 225
      172
           6
             *******
 235
      125
           4
             ******
 245
      78
           3
       51
           2
 255
 265
       55
 275
       42
 285
       35
           1
 295
       28
           1
       29
 305
       85
 315
       42
 325
       99
 335
           3
              *********
 345
      128
           7
 355
      203
              *********
       0
 365
           0
 375
        0
           0
 385
        0
           0
 395
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2871
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS+5N DEPTH 5M START DATE 08/11/73

```
FREGINCY
MEDIAN
                    60
                           120
                                   180
                                           240
                                                  300
(DEG.C) NO. PCT
                                                   .
6.43
       Ö
          0
6.49
          0
6,55
       2
          0
6.61
       0
          0
6.67
       2
          0
6.73
       Ô
          0
       5
6.79
          0
6.85
       3
          0
6.91
       Δ
          0
6,97
       5
          0
7.03
       7
          0
7.09
      16
          1
7,15
      31
          1
      29
7,21
          1
7,27
      69
          2
7.33
      118
             ******
7,39
      59
7.45
      144
             *******
7,51
      93
          3
             ******
7,57
      122
          4
             ******
7.63
             *********
      187
          7
7.69
      150
             ********
7.75
             ********
      185
7.81
      195
             ********
          7
7.87
      129
             *******
7,93
      253
          9
             **********
7.99
      204
8.05
      152
          5
             ********
8.11
      130
          5
             ******
8,17
      8.2
          3
             ********
8,23
      134
          5
            *******
8,29
     107
8,35
      88
          3
            *****
8,41
      87
          3
             *********
8.47
      40
          1
8.53
      32
          1
8.59
       5
8,65
       0
          0
8.71
       1
          0
8,77
       0
```

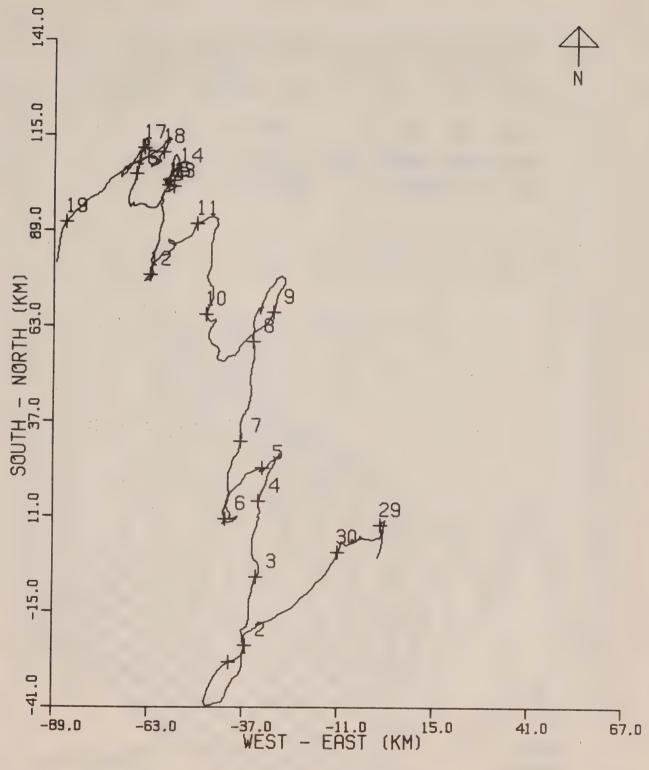
NO. OF SAMPLES OVER 8.80 = 0
NO. OF SAMPLES UNDER 6.40 = 0
TOTAL NO. OF OBSERVATIONS = 2871
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

# HOWE SOUND HS-5N DEPTH 5M START DATE 08/11/73

MEDIAN	FREI	BINCY		60	120	180	240		300
(PPT)	NO.	PCT				,			9
22.10	1	0							
22.30	0	0							
22,50	1	0							
22.70	5	0							
22.90	3	0	W						
23.10	7	0	rkr						
23.30	17	1	***						
23,50	14	0	**						
23,70	26	1	***						
23.90	42	1	****						
24.10	45	2	*****						
24.30	66	2	******	***					
24.50	43	1	****						
24.70	40	1	*****						
24.90	43	i	****						
25.10	72	3	****	***					
25.30	98	3	*****	****	**				
25.50	75	3	****	****					
25,70	54	. 5	*****	,					
25.90	61	5	*****	kr skr					
26.10	71	2	*****	***					
26.30	43	1	****						
26.50	71	5	*****	***					
26,70	140	5	*****	****	*****				
26.90	271	9	*****	****	******	*****	*****	***	
27.10	166	6	****	****	*****	***			
27.30	144	5	*****	***	******				
27.50	162	6	*****	****	*****	**			
27.70	164	6			*****				
27,90	188	7	*****	****	*****	****			
28,10	195	7			*****				
28.30	160	6	*****	*****	******	**			
28.50	105	4	*****	****	****				
28.70	103	4	*****						
28.90	59	2	*****						
29.10	84	3	*****						
29.30	26	1	****						
29.50	9	0	**						
29.70	0	0							
29.90	0	ó							
		1							

NO. OF SAMPLES OVER 30.00 = 0
NO. OF SAMPLES UNDER 22.00 = 0
TOTAL NO. OF OBSERVATIONS = 2871
SAMPLE INTERVAL = 10 MINUTES



STN. NO. HS-5N

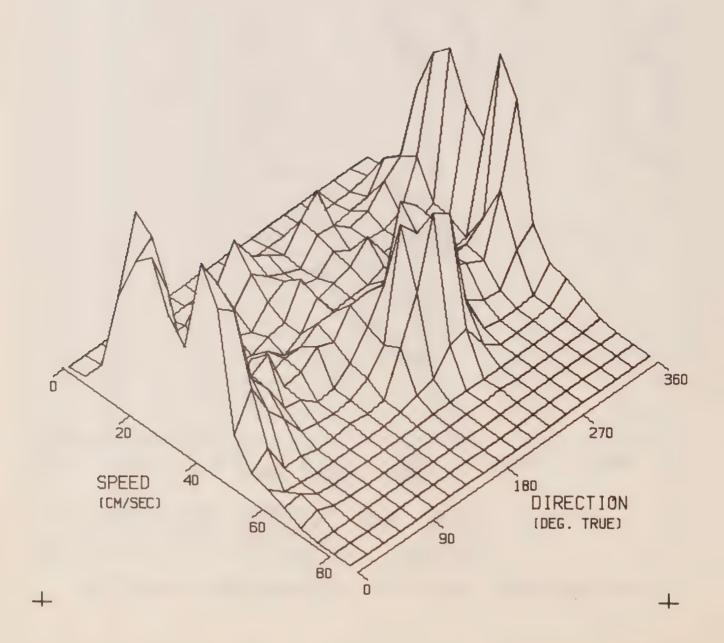
DEPTH 5 M.

STARTING DATE: 28/11/73 ENDING DATE: 19/12/73

+

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N DEPTH 5 M. STARTING DATE: 28/11/73
NO. OF SAMPLES = 3000



STN. NO. HS-5N DEPTH 5 M.

STARTING DATE:28/11/73 SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

## SPEED

	000	080	160	240	320	400	480	560	640	720		880	
	TO	TO	TO	TO	TO	TO	T.0	TO	TO	T O		TO	
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
					_								0.50
0 = 14	001	045	092	077	081	108		014	006				450
15= 29		066	082	044	051	085	033	009	005				375~
30= 44	001	024	033	056	026	052	015		0.05				179
45= 59		004	013	015	050	027		005					90
60- 74	001	007	008	007	023	018	006	001					71
75= 89		004	007	003	056	014	005						56
90-104		003	005	004	006	008	001						24
105-119	001	005	002	001	012	004							25
120-134		008	003	005	010	0.05	001						32
135=149		009	0.01	003	011	004	001						29
150=164	001	059	007	003	016	005	003	001					65
165=179	0.05	014	050	021	018	054	013	001					113
180-194		012	012	007	013	029	059	007					109
195-209		010	004	006	011	039	073	015					155
210-224		003	006	008	007	059	053	056					162
225=239	0.01	008	007	009	020	068	108	033	001				255
240-254	001	038	010	010	021	041	050	018					189
255-269	001	007	007	015	009	025	024	004					92
270-284		004	004	005	009	019	0.08	001					50
285=299		004	006	006	007	016	003						42
300-314		0.05	007	007	006	150	0.03						49
315=329		009	010	003	007	016	001						46
330=344	002	018	014	007	008	032	010						91
345=359	003	055	052	056	032	066	018	005					251
													7000
	15		409						14		0		3000
		358		348		785		131		0		0	

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 0

## HISTOGRAM OF SPEED

HOWE SOUND HS-5N DEPTH 5M START DATE 28/11/73

```
100
                             150
                                    200
                                           250
                 50
     FREGINCY
MEDTAN
     NO. PCT .
(MM/S)
     ()
         0
 1.1
      1
 33
         0
      3
 55
     35
 77
         1
     85
 99
         3
          ******
 121
    113
           ********
           *******
    113
 143
     107
 165
     104
         3
 187
           *******
           *******
     142
 209
 231
     104
          *******
 253
     85
          *******
 275
    111
     8.2
 297
           *********
 319
     72
           *********
 341
     109
           ********
 363
     118
         4
           *******
 385
     196
           **********
     189
           **********
 407
     199
           ***********
 429
     241
          **********
 451
     190
           **********
 473
         6
     154
           *******
 495
     145
 517
           *******
           ********
 539
    113
         4
     93
         3
 561
           ***********
     57
           ******
 583
     17
 605
         1 1
      -8
 627
         0
           * *
 649
      4
         0
      5
 671
         0
 693
      3
         ()
      2
 715
         0
      0
 737
         0
 759
      0
         0
 781
      0
         0
 803
      0
         0
 825
      0
      0
 847
         0
 869
      0
         0
```

NO. OF SAMPLES OVER 880 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

# HOWE SOUND HS-5N DEPTH 5M START DATE 28/11/73

```
MEDTAN
       FREGINCY
                         70
                                  140
                                           210
                                                     280
                                                               350
(DEG.T) NO. PCT .
   5
       330
            11
  15
       306
            10
  25
       209
                *******
  35
       118
  45
        76
  55
        57
             2
                *****
  65
        51
             2
  75
        45
  85
        32
  95
        16
                **
             1
 105
        12
             0
                * *
 115
        18
                ***
 125
        21
 135
        22
                ***
 145
        21
             1
 155
        40
             1
 165
        56
        88
 175
             3
 185
        71
                *****
 195
        84
             3
                ******
 205
       106
                ****
 215
       111
                ******
 225
       136
 235
       174
                ********
 245
       116
                *****
 255
       111
                **********
 265
        48
 275
        85
 285
        38
                ****
 295
        25
 305
        35
 315
        25
 325
        36
             1
        49
 335
             2
 345
       116
 355
      173
 365
         0
             0
 375
         0
             0
 385
         0
             0
 395
         0
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

NO. OF SAMPLES OVER 8.60 = 0
NO. OF SAMPLES UNDER 6.20 = 0
TOTAL NO. OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES

HOWE SOUND HS-5N DEPTH 5M START DATE 28/11/73

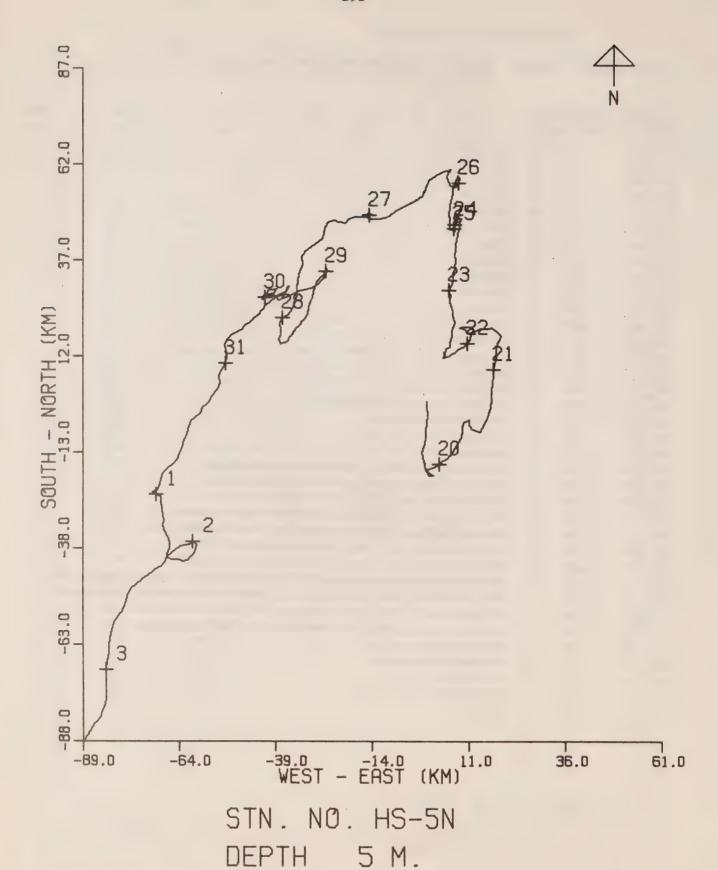
```
320
                                                             400
                        80
                                          240
MEDTAN
       FREGINCY
                                 160
(DEG.C) NO. PCT .
      0 . 0
6.23
6.29
6.35
        0
             0
        4
6.41
             0
        21
6.47
             1
6.53
        26
             1
6.59
        15
             1
6.65
        51
             2
        73
             2
                *******
6.71
6.77
       105
                ******
6.83
             4
                ******
       132
             5
6.89
      139
6.95
       216
7.01
       167
             6
                *******
7.07
       239
                ********
             8
7.13
       183
                **********
             6
7.19
       88
             3
                ******
7.25
       124
                ***********
       94
7.31
             3
                ********
7.37
       73
                ******
       90
7.43
             3
7.49
       176
             6
                ******
7,55
       118
7,61
                **********
       131
             4
       69
7.67
             2
                *******
       109
7.73
                *********
             4
7.79
       112
             4
 7.85
       68
             2
 7.91
        84
                *****
 7,97
        63
             2
                *****
 8.03
        43
             1
 8.09
        64
                ******
 8,15
        31
             1
        38
 8.21
                ****
             1
 8.27
        21
                444
             1
 8.33
        12
             0
                黄黄
 8,39
         9
             0
 8,45
             0
 8,51
         5
             0
                ŵ
 8.57
         1
             0
```

## HISTOGRAM OF SALINITY

# HOWE SOUND HS-5N DEPTH 5M START DATE 28/11/73

MEDIAN	FREGI	NCY	50	100	150	200	250
(PPT)	NO. PI	CT.	•				
20,13	5	0					
20.39	3	0	W				
20.65	4	0	*				
20,91	5	0					
21,17	9	0	**				
21,43	13	0	***				
21.69	13	0	***				
21,95	26	1	****				
22.21	31	1	*****				
22.47	24	1	****				
22.73	19	1	****				
22,99	44	1	******				
23,25	36	1	*****				
23,51	51	5	******				
23,77	50	2	******				
24,03	64	5	*******				
24,29	100	3	********	****			
24,55	73	5	*******	**			
24.81	72	2	******	•			
25.07	90	3	*******	***			
25,33	154	5	*******	******	****		
25,59	154	5	*****				
25,85	138	5	*******				
26.11	172	6	********				
26.37	188	6	*****			***	
26,63	146	5	*****				
26,89	168	6	********				
27.15	245	8	********				
27,41	231	8	********				
27.67	554	7	********				*
27,93	192	6	******		****	***	
28,19	76	3	*****	t #			
28,45	70	2	*****				
28.71	52	2	*****				
28,97	33	1	*****				
29,23	50	1	***				
29.49	6	0	敦				
29.75	1 1	0					
30.01	0	0					
30,27	0	0					

NO. OF SAMPLES OVER 30.40 = 0 NO. OF SAMPLES UNDER 20.00 = 4 TOTAL NO. OF OBSERVATIONS = 3000 SAMPLE INTERVAL = 10 MINUTES

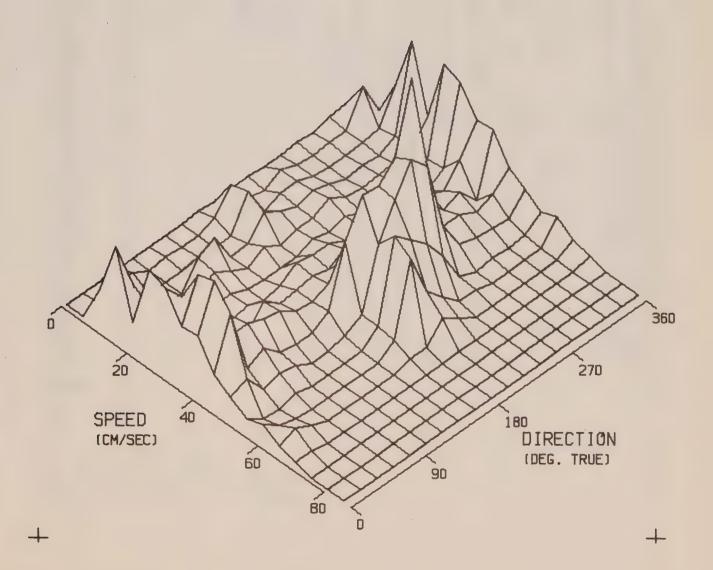


STARTING DATE: 19/12/73 ENDING DATE: 3/ 1/74

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# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N DEPTH 5 M. STARTING DATE: 19/12/73
NO. OF SAMPLES = 2198



STN. NO. HS=5N DEPTH 5 M.

STARTING DATE: 19/12/73
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

## SPEED

	2.4 2. 4.									720	800		
	TO	10	T0	TO	TO		T0	10		,		10	
DIR	079	159	234	519	399	4/4	דככ	דנח	/14	777	879	727	
0= 14	002	015	024	055	054	044	012	013	004				223
15= 29	002	018			045		010		003				180
30= 44	007	010	009	023	034	015	002		001				95
45= 59		001			019		005		,,				73
60= 74	002	() () L		006	019	018	003						50
75= 89	002		005	006	009	008							25
90=104	0.01	005		007	012		001						50
105-119	001	007		006	010	005							32
120-134		002											55
135=149		001	00,	005	011	011							28
150=164	001		005	005	009	-	007	004					56
165=179	009			009	007	055	023						142
180=194	009	010		005	010	039	045	048					171
195=209	001				017		061		0.01				168
210=224	005	003	003	003	024	056	055		006				168
225=239	002	003		003	027	092	046	008					184
240=254	004	011		010	028	077	037	004					174
255=269	001	17 I A	001	001	021	034		001					74
270=284	001		001	001	008		004	57 N B					30
285-299	(, 0, 1		005	003	013	009	005						32
300=314	001		004	001	008	008	005						27
315=329	003		005	77 -7 %	005		003						25
330=344	009			003	012		002						36
345-359							004	003	001				130
J - 7 - J J -													
	66		153		424		345		16		0		2195
		135	-							0		0	

NO. OF SPEEDS EXCEFDING 960 MM/SEC = 3

## HISTOGRAM OF SPEED

HOWE SOUND HS-5N DEPTH 5M START DATE 19/12/73

```
FREGINCY
MEDIAN
                     50
                             100
                                     150
                                              200
                                                      250
(MM/S)
      NO. PCT
  1.1
       6
           0
  33
       17
  55
       23
  77
       27
  99
       30
           1
 121
       36
           2
 143
       53
           2
              *****
 165
       54
 187
       35
              *****
 209
       41
              ******
 231
       41
 253
       52
 275
       71
 297
       66
             ******
 31.9
       73
              *********
 341
      116
              *******
 363
      125
              ***********
 385
      157
           7
 407
      144
             ********
 429
      141
              ********
           6
 451
      225
          10
             ************
 473
      177
             **********
 495
      123
             *******
 517
      118
             *************
 539
       57
           3
 561
       52
           2
 583
       42
             *****
 605
       41
           2
              *****
 627
       36
           2
              *****
 649
        9
           0
 671
        5
           ()
 693
        2
           0
 715
        0
           0
 737
        0
           0
 759
        0
           0
 781
        0
 803
        0
           0
 825
        0
 847
        0
 869
        0
           0
```

NO. OF SAMPLES OVER 880 = 3
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2198
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 5M START DATE 19/12/73

```
150
                                              250
                 50 100
                                        200
MEDIAN FREDINCY
(DEG.T) NO. PCT .
            **********
     158
  5
     151
  15
            *******
     107
          5
  25
          3
  35
     62
            ********
  45
     51
      45
          2
  55
            ******
      36
  65
          2
      23
  75
            ****
  85
     14
         1
            ***
  95
      36
          2
      24
         1
 105
      22
 115
      20
            ***
 125
          1
     1.1
            * *
 135
         1
 145
      20
          1
 155
      24
          1
            ****
     69
            *****
 165
 175
     122
            *******
            *******
     111
          5
 185
 195
     121
          6
            *****
 205
     96
          4
     112
          5
            ******
 215
            ******
 225
     113
 235
     137
            *******
          5
 245
     120
            *******
     74
 255
          3
            ********
 265
      4.0
      21
 275
            ***
 285
      21
            ****
 295
      2.0
          1
            ***
 305
      23
          1
            ****
 315
      16
          1
 325
      15
          1
            女女女
 335
      27
            ****
          1
      3.8
          2
           ******
 345
      98
            *******
 355
 365
      0
 375
       0
          0
 385
       0
 395
       0
          Λ
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2198
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 5M START DATE 19/12/73

```
MEDIAN
          FREGINCY
                                100
                                             200
                                                          300
                                                                       400
                                                                                    500
(DEG.C)
          NO. PCT
 6.53
             0
                  0
 6,59
             Ô
                  0
 6,65
             2
                  0
 6.71
             8
                  0
 6,77
             7
                  0
 6.83
            1
                  0
 6.89
            4
                  0
 6,95
           16
                  1
 7.01
           15
 7.07
           29
 7,13
           39
                  5
 7.19
           36
 7.25
           43
7,31
           85
7,37
           93
 7.43
          122
                 6
7.49
          157
7,55
          151
                 7
7.61
         357
                16
7.67
         213
                10
7.73
         230
                10
7.79
         175
                 8
7,85
          69
                 3
7.91
           72
                 3
                     *****
7,97
           34
8.03
          21
                     **
                 1
8.09
           37
                 2
8,15
          10
                 0
8.21
          27
                 1
8,27
          53
                 2
8.33
          25
                 1
                     **
8.39
          36
                 2
8,45
          10
                 0
8.51
           6
                 0
8,57
          15
8.63
           0
                 0
8.69
           0
                 0
8,75
           0
                 0
8,81
           Ó
                 0
8.87
           0
                 0
```

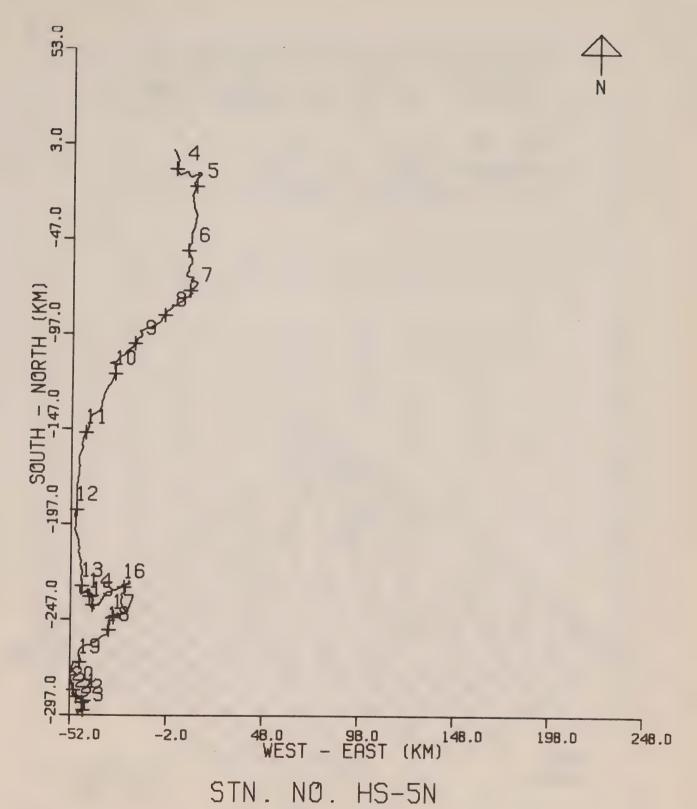
NO. OF SAMPLES OVER 8.90 = 0 NO. OF SAMPLES UNDER 6.50 = 0 TOTAL NO. OF OBSERVATIONS = 2198 SAMPLE INTERVAL = 10 MINUTES

### HISTOGRAM OF SALINITY

## HOWE SOUND HS-5N DEPTH 5M START DATE 19/12/73

```
40
MEDIAN
      FREGINCY
                            80
                                   120
                                           160
                                                   200
      NO. PCT .
(PPT)
24.67
       1
           0
       E5
24.81
           0
24.95
       14
           1
             ***
25.09
       10
             ***
           0
25,23
       8
             * *
           0
       Q
25.37
           0
       19
25.51
           1
25.65
       25
           1
             ****
25.79
       29
             *****
          1
25.93
       47
           2
             ********
26.07
       41
           2
             *******
           2
26.21
       51
             ********
26.35
       58
           3
             **********
26.49
      70
           3
             ***********
26,63
           5
      101
             ********
26.77
      130
           6
             **********
26,91
      109
           5
             *********
27.05
           5
      112
             ********
      106
27,19
           5
             *******
27.33
      81
           4
             ********
27,47
       51
           2
             *********
27,61
           3
       61
             **********
27.75
       95
             ********
           4
27.89
       86
           4
             ********
28.03
       56
           3
             *********
28,17
       50
           2
             ******
28.31
       57
          3.
             ******
28.45
       89
           4
             *******
28,59
      74
           3
             *******
28.73
      89
             *******
28,87
      112
           5
             **********
29.01
      83
          4
             ********
29,15
      79
             *******
           4
29,29
      59
          3
             *****
29,43
      78
          4
             ******
29.57
           2
       33
             *****
29.71
      10
          0
             ***
29.85
      10
          0
             ***
29.99
       0
          0
30.13
       0
          0
```

NO. OF SAMPLES OVER 30.20 = 0
NO. OF SAMPLES UNDER 24.60 = 0
TOTAL NO. OF OBSERVATIONS = 2198
SAMPLE INTERVAL = 10 MINUTES



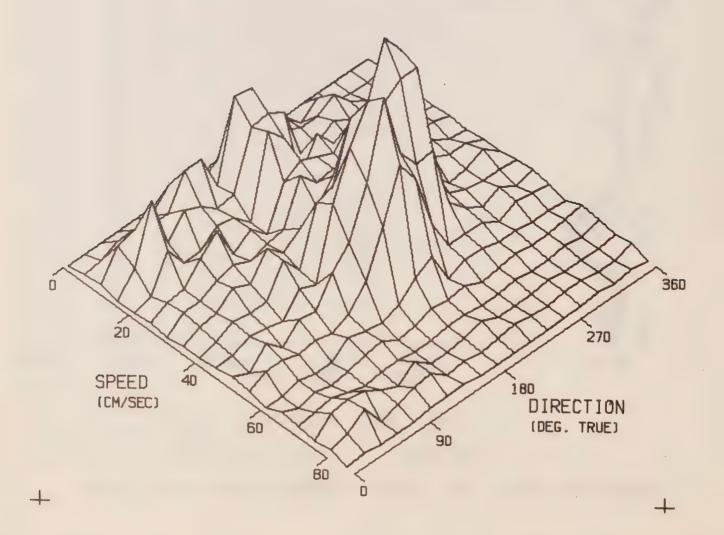
DEPTH 5 M.

STARTING DATE: 3/ 1/74 ENDING DATE: 23/ 1/74

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# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N DEPTH 5 M. STARTING DATE: 3/ 1/74
NO. OF SAMPLES = 2858



STN. NO. HS-5N DEPTH 5 M.

STARTING DATE: 3/ 1/74
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

#### SPEED

	000	080	160	240	320	400	480	560	640	720	800	880	
		TO								TO			
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
0= 14		003											16
15= 29	001	015	001	007	004	003	005	003	003	008	004		51
30- 44	007	031	017	007	007	004	008	003	0.05	008	003		97
45- 59	004	055	012	009	009	004	0.05		003	010	001		79
60= 74	0.05	010	009	012	015	005	004		001	006			61
75- 89	0.06	012	014		004		006				0.01		65
90-104	010	027											104
105-119	006											0.01	112
120-134	007	012	006	008	013	017							86
135=149	0.05	015	006	009	023	039	028	0.05			001		128
150-164	007	042	039		050		043						227
165-179	023	033								001			311
180-194		056											
195~209	005	055						015		003		0.01	
210=224	007	011			043			004					535
225-239	008	011	018		046			0.05		0.01			818
240-254	001	012			050		021	003		001			190
255=269	003	011			033		011	004					116
270-284	007	016	009	006	011			003	005	0.05			73
285=299	0.05	010	004	004	015		003	003					46
300-314		003		005	004				005		0.05		25
315=329	0.05	001	_	003	004		006						24
330=344		001	006	001	007	003	003		005		001		24
345=359			001	001	005	0.05	0.05	001	001	0.01	001		18
	116		283		440		440		33		23		2857
		403		298		654		111		54		5	

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 1

HISTOGRAM OF SPEED

HOWE SOUND HS-5N DEPTH 5M START DATE 03/01/74

```
200
                                                250
                                 150
                          100
                   50
     FREGINCY
MEDTAN
     NO. PCT
(MM/S)
  1.1
      0
          0
       5
          0
  33
  55
      44
          5
            *****
      102
            ******
  77
            *******
          5
  99
      135
            *******
      104
          4
 121
          4
      116
 143
            *********
 165
      73
          3
      70
 187
      78
          3
            ******
 209
            *******
      93
          3
 231
      68
          2
 253
            ******
 275
      99
          3
 297
      64
      83
            ******
          ፯
 319
            *******
      118
 341
     122
 363
            *********
 385
     166
          6
            **********
 407
     169
            *********
      177
 429
          6
            **********
          7
 451
      200
      141
          5
 473
            *******
 495
     142
          5
            *******
      139
          5
 517
      88
          3
            **********
 539
      68
            *****
 561
 583
       44
 605
      16
            ***
 627
       21
             ***
       1.0
          0
             * *
 649
       Q
            **
 671
       -8
          0
             **
 693
             **
 715
       - 8
          0
      19
 737
          1
       14
  759
             ***
 781
       17
             ***
       13
          0
  803
  825
       1.0
          0
  847
       - 1
          0
  869
       1
          ()
```

NO. OF SAMPLES OVER 880 = 3 NO. OF SAMPLES UNDER 0 = 0 TOTAL NO. OF OBSERVATIONS = 2858 SAMPLE INTERVAL = 10 MINUTES

# HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 5M START DATE 03/01/74

```
MEDIAN .
     FREGINCY
                   50
                         100
                                 150
                                        200
                                                250
(DEG.T) NO. PCT .
  5
      11
          0
            **
  15
      14
          0
            ***
  25
      48
           *******
  35
      59
            *******
  45
      67
            *****
  55
      52
          2
           ******
  65
      32
          1
  75
      52
          2
            *******
  85
      47
          2
            *****
 95
      52
          2
            *****
 105
      85
          3
           ********
 115
      70
            ********
 125
      61
          2
            *******
 135
     64
            ********
 145
      93
          3
            ******
 155
     153
          5
            **********
 165
     181
          6
            *********
 175
     221
            ***********
 185
     205
          7
            ***********
 195
     0.05
          7
            **********
 205
     144
         5
            ********
 215
     144
          5
            ********
 225
     153
         5
            ********
 235
     142
         5
            *********
 245
     142
         5
            *******
 255
     104
         4
     58
 265
         2
            *******
 275
      53
         2
            ******
 285
     37
 295
      23
         1
            ****
 305
      16
            ***
         1
315
      16
            ***
         1
325
      19
         1
            ***
335
      14
            **
345
      16
            ***
355
      10
         0
            * *
365
      0
         0
375
      0
         0
385
      0
         0
395
      0
         0
```

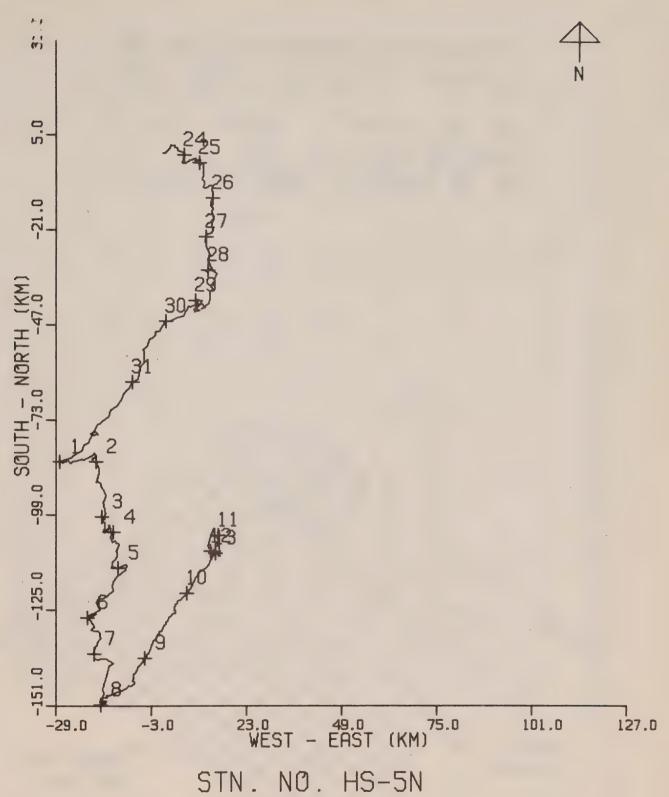
NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2858
SAMPLE INTERVAL = 10 MINUTES

# HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 5M START DATE 03/01/74

```
FREGINCY
MEDIAN
                     60
                            120
                                     180
                                             240
                                                     300
(DEG.C) NO. PCT
4.84
        5
           0
4.92
        6
           0
5.00
        3
           0
5.08
       7
           0
5,16
       40
           1
5,24
       35
           1
5.32
       79
           3
5.40
       65
             ******
           2
5,48
      154
           5
             *******
5.56
     119
             ******
5.64
      195
           7
             *********
5.72
     167
             *******
5.80
             ***************
      230
           8
5.88
     192
           7
             *********
5.96
      236
             ********
6.04
      237
             **********
           8
6.12
     109
           4
6.20
      173
           6
             *******
6.28
      98
           3
             ******
6.36
      55
           2
6.44
      34
           1
             ****
6.52
      35
          1
             *****
6.60
      39
          1
6.68
      48
          2
             *****
6.76
      38
          1
6.84
      43
          2
             ****
6.92
      50
          2
             *****
7.00
      35
          1
7.08
      73
          3
             *****
7,16
      38
          1
7.24
      74
          3
             ********
7.32
      29
          1
             ****
7.40
      35
          1
             *****
7.48
      24
          1
             ***
7,56
      12
          0
7.64
      1.1
          0
             * *
7.72
      15
          1
             * * +
7.80
      12
          0
             * *
7.88
       7
          0
7.96
       0
          0
```

NO. OF SAMPLES OVER 8.00 = 0
NO. OF SAMPLES UNDER 4.80 = 1
TOTAL NO. OF OBSERVATIONS = 2858
SAMPLE INTERVAL = 10 MINUTES



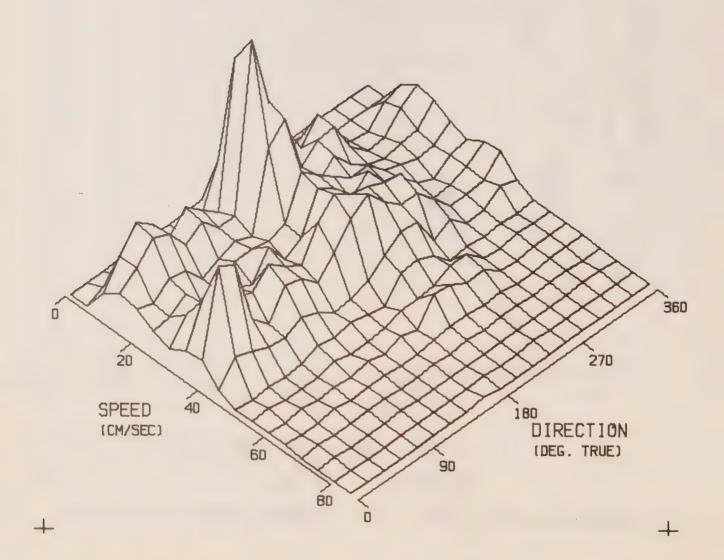
DEPTH 5 M.

STARTING DATE: 23/ 1/74 ENDING DATE: 13/ 2/74

+

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N DEPTH 5 M. STARTING DATE: 23/ 1/74
NO. OF SAMPLES = 3000



STN. NO. HS=5N DEPTH 5 M.

STARTING DATE: 23/ 1/74
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

# SPEED

	000	080			320		480			720			
0.10	10	10		TO		10		TO	TO	10	TO	TO	
DIR	0/9	159	234	519	399	479	224	639	719	799	879	959	
0= 14	001	016	025	017	A 2 2	004	000	0.01					63.4
15= 29	004	038	014	013	050		001						86
30= 44	004	048		023		038	100	001	001	001			168
45= 59	001	039	027		027	016			001				195
60= 74	005	039	019	013	019	013		002	001				125
75= 89	005	016	013	017				001	004				105
90=104	003	029	014		056					001			115
105-119	003	029			034		006		001	001			138
120-134	003	008	020	055	018	009	000	1103					80
135=149	003	015	017	015	014		003						76
150-164	025	084		021	033		001		001				229
165=179	032	120		034	033	015		005		001	002		310
180=194	011	055		046	048	023	003	007		11.0.1	000		249
195=209	007	040	039	032	036	029	008	010	005				203
210=224	002	035	015	023	038	028	010	011	001				163
225-239	005	020		027	026		012	009					150
240-254	004	029	022	031	030	029	003	009		001			159
255-269	008	038	-	020	027	009	004	007		001			134
270-284	003	014		014	010		001	003					70
285=299		002	008	011	004	008			0.0.1				34
300-314		, 0 -		001	002	005							13
315=329		200		004	004		003		002	001			55
330-344		013		003	008		001						40
345=359		, -	013		008	-	001						58
													- '
	125		540		586		63		15		2		2998
		746		449		392		73		7		0	

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 2

# HISTOGRAM OF SPEED

# HOWE SOUND HS-5N DEPTH 5M START DATE 23/01/74

```
MEDIAN
     FREGINCY
                50
                      100
                        150
                                   200
                                          250
(MM/S)
     NO. PCT .
 1.1
     1
        0
     15
 33
        1
          ***
 55
     46
 77
     110
          *******
 99
          *****************
    105
          **********
 121
    155
 143
          **********
    243
        8
 165
    160
        5
          *******
 187
    157
          *****
        5
209
    145
          *********
231
    133
          *****
253
    107
        4
          *******
275
    120
        4
          ********
297
    120
          ******
319
    135
          *******
        5
341
          ***********
    206
        7
363
    156
        5
          ******
385
    170
          **********
407
    161
        5
          *****
429
    119
          **********
    80
451
          *****
473
     38
          *****
495
     17
        1
517
     17
        1
          ***
539
     17
        1
          * * *
561
     15
583
     31
605
     19
        1
627
     14
        0
          安安会
649
     5
        0
          *
671
        0
693
     4
        0
715
     5
        0
737
     2
        0
759
        0
781
803
     1
825
     0
847
     2
        0
869
     0
```

NO. OF SAMPLES OVER 880 = 2
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES

#### HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 5M START DATE 25/01/74

```
FREGINCY
MEDIAN
                    50
                          100
                                  150
                                          200
                                                  250
(DEG.T) NO. PCT
   5
          2
      66
  15
      67
  25
      138
          5
             *******
  35
     133
             ********
  45
     102
          3
  55
      77
           3
             ********
  65
      68
           2
             *******
      53
  75
           2
  85
       55
           2
  95
      76
           3
             ******
       88
 105
           3
             ******
 115
       94
           3
             *******
       51
 125
 135
       51
           2
             ******
 145
       55
           2
 155
      137
           5
             ********
           7
 165
      252
             *********
     192
 175
 185
      162
           5
             **********
 195
      173
           6
 205
      107
 215
      102
           3
             ******
 225
      113
             *******
 235
      99
           3
      109
 245
             *******
    91
 255
           3
             ******
 265
       88
           3
       48
 275
             *****
 285
      31
           1
 295
       19
           1
             ***
       7
 305
          0
 315
       13
           0
             ***
 325
       16
           1
             ***
       21
 335
       41
             ****
 345
           1
 355
       35
           1
             ****
 365
       0
           0
 375
       0
           0
       0
 385
           0
 395
       0
           0
```

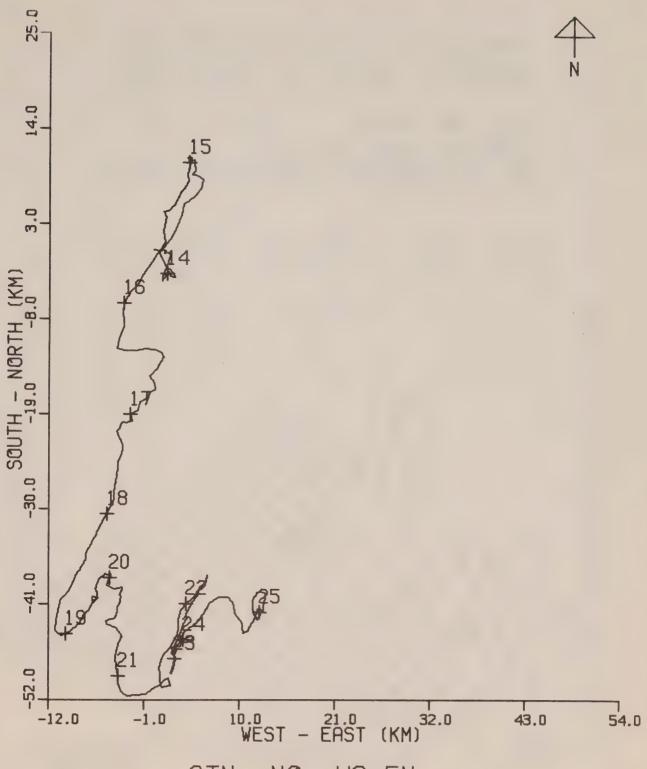
NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES

#### HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 5M START DATE 23/01/74

```
FREGINCY
MEDTAN
                 40
                        80
                               120
                                     160
                                             200
     NO. PCT .
(DEG.C)
                                             9
      0
4.83
         0
      0
4.89
         Ω
4.95
      15
         1
5.01
      28
         1
           *****
5.07
     69
         2
           *********
5.13
     62
           *********
         2
      65
5.19
         2
           **********
5,25
     .76
         3
           *********
5.31
     111
         4
5.37
     83
         3
           *******
5.43
     153
         5
           *********
5.49
     119
         a
           ********
5.55
         2
     60
5,61
     124
           ********
         4
5.67
     111
         4
           *********
5.73
    87
5.79
     120
         4
           *********
5.85
         5
           ***********
     141
5.91
     107
           *********
5,97
     160
         2
           *********
6.03
           *********
     166
         6
6.09
         2
           *****
     62
6.15
     125
         4
           *********
6.21
     76
         3
           *********
6.27
     46
         2
           ********
6.33
      90
         3
           *********
6.39
      81
         3
           ******
6,45
         2
     61
           ******
6.51
      76
         3
           *******
6.57
      70
         2
           ********
6.63
      65
6.69
     109
           ******
6.75
      83
         3
           ********
6,81
      60
         2
           **********
6.87
     57
         2
           ******
6,93
     45
         2
6.99
      12
         0
           ***
7.05
      14
         0
           ***
7.11
     11
         0
           黄黄黄
7,17
      0
         0
```

NO. OF SAMPLES OVER 7.20 = 0
NO. OF SAMPLES UNDER 4.80 = 0
TOTAL NO. OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES



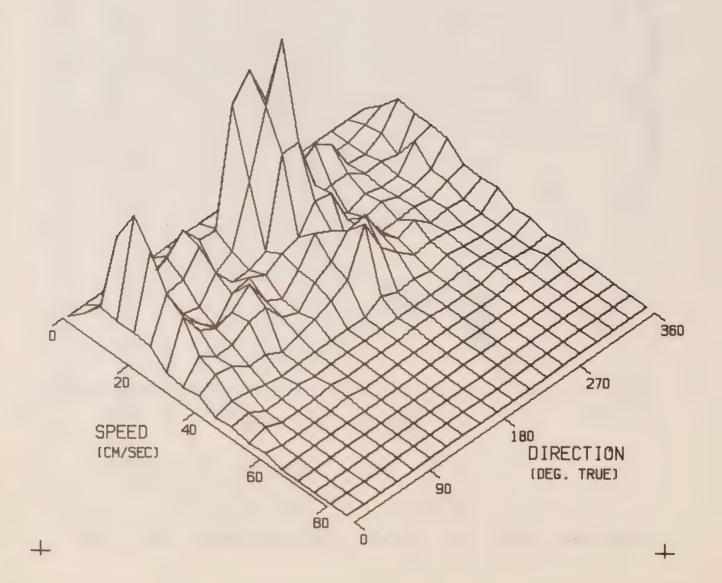
STN. NO. HS-5N DEPTH 5 M.

STARTING DATE: 13/ 2/74 ENDING DATE: 25/ 2/74

+

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N DEPTH 5 M. STARTING DATE: 13/ 2/74
NO. OF SAMPLES = 1784



STN. NO. HS-5N DEPTH 5 M.

STARTING DATE: 13/ 2/74
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

# SPEED

DIR	000 TO 079	080 T0 159	160 TO 239	240 TO 319	320 TO 399	400 TO 479	480 TO 559	560 T0 639	640 TO 719	720 10 799	800 TO 879	880 TO 959	
0= 14	004	028	024	016	017	008	001	002					100
15* 29	004	055	056	038	012	007	005						177
30- 44	006	037	025	053	007	007							105
45= 59	005	011	009	016	007	005							50
60- 74	003	014	008	005	010	002							42
75= 89	005	019	003	011	010	001	001						47
90=104	007	055	017	014	015			002					77
105=119	006	017	014	019	011	0.01							68
120-134		008	007	007	001								23
135=149		016	0.05	006	0.05	0.01							33
150=164	004	055	015	015	009								98
165=179	008	075	029	015	016	003							146
180-194	009	086	060	030	017	001							203
195-209	005	087	049	024	035	014							214
210=224	003	055	033	017	027	008	0.05						145
225-239	003	014	010	010	019	005							61
240-254	001	009	007	006	009	003							35
255=269	006	018		004	0.05	001							31
270-284	005	050	004	005	003	003							37
285=299		005	001	006	005	003	0.05	005					21
300=314		002	003	005	005	001	0.01						1.1
315-329		0.01	005	005	001		001						7
330=344	001	001	007	003				001					13
345=359	009	008	010	006	005		004	0.01					40
	85		398		242		17		0		0		1784
		660		300		74		8		0		0	

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 0

HISTOGRAM OF SPEED

#### HOWE SOUND HS.5N DEPTH 5M. START DATE 13/02/74

```
MEDTAN
     FREGINCY
                 30
                        6.0
                               90
                                     120
                                           150
(MM/S)
    NO. PCT .
                                            .
  8
      0
  24
      1
         0
 40
      3
  56
     17
         1
 72
     64
           ********
     136
         А
           ***********
 88
 104
     146
         8
           *********
    145
 120
         8
           *********
     130
         7
           ************
 136
 152
     103
           **********
         6
     103
 168
         6
           ***********
     99
 184
           **********
 0.05
     84
         Eg.
           *********
 216
     66
           ********
 232
     63
         4
           *******
     45
 248
         3
           *********
     72
 264
           **********
 280
     55
         ፯
           *******
 296
     53
         3
           *********
     58
 312
         3
           ******
 328
     60
         3
           *********
 344
     60
         3
           *******
     44
 360
         2
           **********
 376
     46
           ******
 392
     38
           *******
 408
     35
         2
           ******
 424
     17
         1
 440
      8
         0
           **
 456
      5
         0
           * *
 472
      4
         0
 488
      2
         0
 504
         0
 520
      4
         0
 536
      7
         0
 552
      0
         0
 568
      2
         0
 584
      1
         0
 600
      2
         0
 616
      3
         0
 632
      0
         0
```

NO. OF SAMPLES OVER 640 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 1785
SAMPLE INTERVAL = 10 MINUTES

#### HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 5M. START DATE 13/02/74

```
MEDTAN
     PREGINCY
                   30
                          60
                                 90
                                       120
                                               150
(DEG.T) NO. PCT
      59
  5
          3
            ******
  15
      130
          7
           ************
      99
  25
           **********
          6
  35
           **********
      66
  45
      46
          3
           *********
  55
      36
          2
           ********
      27
  65
          2 *******
  75
      26
          1
            *****
  85
      37
          2
           ********
 95
      52
          3
           **********
 105
      55
          3
           ***********
 115
      35
          2 ********
 125
      15
          1
      20
 135
            *****
           *****
 145
      55
         1
 155
      63
           *******
 165
      81
          5
            ********
          6 **********
 175
     104
          8 **************
 185
     139
          A ****************************
 195
     148
          8 **************
 205
     142
      97
 215
          5
           **********
 225
      59
            ***********
          3
      33
 235
          2 ********
 245
      26
         1
            *****
 255
      20
         1
            *****
 265
      23
          1
           *****
 275
      27
          2
            *****
      19
 285
          1
 295
       8
            ***
          0
 305
       9
          -1
            ***
      5
 315
          0
 325
       4
          0
 335
       6
            **
          0
 345
      23
            *****
          1
 355
      24
            ****
         - 1
 365
       0
          0
 375
       0
          0
 385
       0
          0
 395
       0
          0
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 1785
SAMPLE INTERVAL = 10 MINUTES

#### HISTOGRAM OF TEMPERATURE

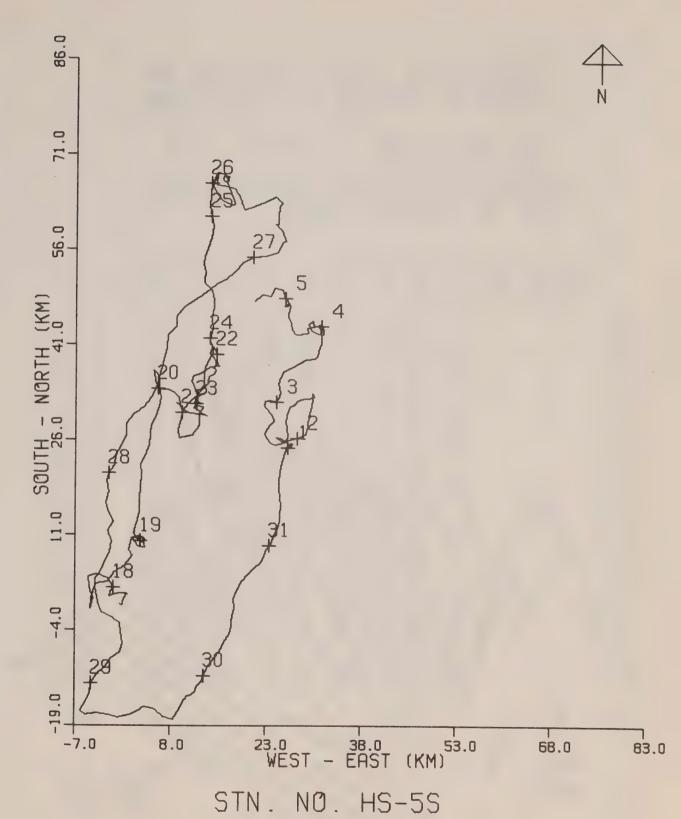
HOWE SOUND HS-5N DEPTH 5M START DATE 13/02/74

```
90
MEDIAN
     FREQINCY
                  30
                         60
                                       120
                                              150
(DEG.C) NO. PCT .
                                        .
5.42
      0
         0
5.46
         0
5.50
      6
         0
           4. 10
5.54
      68
         4
            *******
5,58
      35
         2
            *****
5.62
      15
         1
            ****
5,66
      18
         1
5.70
      62
           *****
         3
5.74
      16
         1
           ****
5.78
      20
         1
           ****
5.82
      35
         2
           ********
5.86
      45
         3
           *********
5.90
      81
         5
           *********
5,94
      36
           ******
5,98
      60
           *****
         3
6.02
      60
         3
           *******
6.06
      43
         2
           *****
6.10
     39
           *****
         2
6.14
    61
         3
           ******
6.18
     38
         2 *********
    65
6.22
         4
           *******
6,26
     37
         2 *********
6.30
     81
           *******
         5
6.34
     103
           ********
         6
6.38
     102
           **********
         6
6.42
    103
           *********
6.46
     44
         2
           *******
6.50
     91
           ******
         5
6,54
     78
           *******
6.58
     96
           *******
         5
6.62
     44
          *********
6.66
     63
           **********
6.70
     46
         3
          ******
6.74
     36
         2
           ******
6.78
     18
         1
           ****
6.82
     20
         1
           *****
6.86
     15
         1
           ****
6,90
      2
         0
6,94
      0
         0
6,98
      0
         0
```

NO. OF SAMPLES OVER 7.00 = 0
NO. OF SAMPLES UNDER 5.40 = 0
TOTAL NO. OF OBSERVATIONS = 1784
SAMPLE INTERVAL = 10 MINUTES

DATA FOR 7-METRE DEPTH



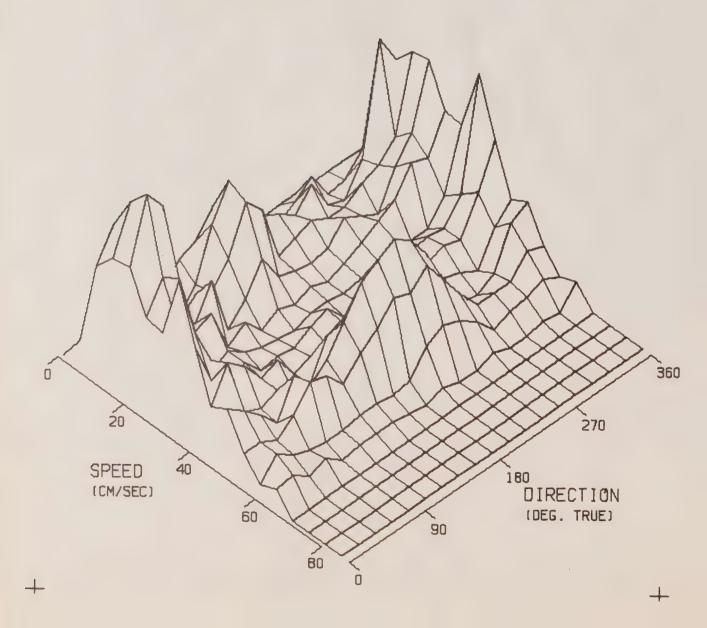


DEPTH 7 M.

STARTING DATE: 17/ 1/73 ENDING DATE: 5/ 2/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5S DEPTH 7 M. STARTING DATE: 17/ 1/73
NO. OF SAMPLES = 2694



STN. NO. HS=58 DEPTH 7 M.

STARTING DATE: 17/ 1/73
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

000 080 160 240 320 400 480 560 640 720 800 880

# SPEED

	TO	TO	TO	TO			*00			160		000	
DIR		159				TO	10	TO	TO	10	TO	TO	
OIK	0/7	124	524	319	399	479	559	639	719	799	879	959	
0- 14	0.07	0.57	- /1 Al		- 8° 41								
0= 14	006	053	044	037									254
15= 29	007	049	096	036	030	028	013	012	005				273
30- 44	008	049	071	059	021	014	014	011	001				218
45= 59	005	008	028	014	015	012	011	005	001				96
60= 74	004	008	014	014	006	010	012	010	003				81
75= 89	004	005	013	013	008	010	050	006					79
90=104	005	002	020	007	009	008	015	004	002				69
105-119	008	007	011	005	003	003	014	007	001				59
120=134	010	019	003	005	002	007	017	004	001				68
135=149	016	018	012	001	004	015	025	008	48 m				99
150=164	021	042		500	005	015	033	004	001				145
165=179	006	026	020	002	008	017	036	006	001				121
180=194	006	050	006	002	007	017	042	008					
195=209	004	014	005	007	001	010	042	013	001				108
210=224	994	010	005	003	004	011	040	019	001				97
225=239	001	015	0 0 25	003	003								92
240=254	001		000			018	034	015					89
		018	008	006	007	008	024	007					79
255~269	004	010	013	009	012	006	016	008	001				79
270=284	010	005	008	015	007	007	007	003					62
285=299	002	007	009	011	010	006	003	004					52
300=314		003	013	007	012	010	006	002					53
315#329	005	013	021	015	012	005	008	003	001				77
330-344	005	044	025	017	012	015	018	010					146
345=359	008	042	036	024	035	023	016	012	002				198
	137		503		287		482		17		0		2694
		487		284		306		191		0		0	
												-	

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 0

# HISTOGRAM OF SPEED

# HOWE SOUND HS = 58 DEPTH 7M. START DATE 17/01/73

```
MEDIAN
   FREQINCY
              30
                   60
                        90
                             120
                                   150
   NO. PCT .
(MM/S)
  9
     0
       0
 27
    17
       1
         ****
 45
    38
         *****
 63
    65
       2
         *******
    95
 81
         *********
 99
    84
         *******
       3
   156
 117
         6
 135
    90
       3
         ********
    79
 153
       3
         ********
171
    142
       5
         189
   125
       5
         **********************
207
   131
       5
         225
    84
         *******
       3
243
    84
       3
         *******
261
    81
       3
         *******
    50
279
       2
         *******
297
    57
       2
         *******
315
    46
       2
         ******
333
    67
       2
         *******
351
    77
       3
         ******
369
    56
       2
        ********
387
    74
       3
        *******
405
    60
       2
        ******
423
    57
       2
        ****
441
    64
        *******
459
    65
        ******
477
    102
        ********
       4
495
   130
       5
        ************
513
    97
        **********
531
   120
       4
        ***************
549
    93
       3
        *******
567
    66
        ******
       2
585
    51
       2
        ******
603
    39
       1
        *****
621
    27
        *****
639
    15
       1
        ****
657
    8
       0
        ***
    2
675
       0
693
    0
       0
711
    0
       0
```

NO. OF SAMPLES OVER 720 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2694
SAMPLE INTERVAL = 10 MINUTES

#### HISTOGRAM OF DIRECTION

HOWE SOUND HS-58 DEPTH 7M. START DATE 17/01/73

```
MEDIAN
     FREGINCY
                  50
                        100
                               150
                                      200
(DEG.T) NO. PCT
  5
     193
         7
            *********
     182
  15
         7
  25
     168
            *********
  35
     169
            *********
      7.5
  45
          3 *******
  55
      57
          2
            ******
  65
      46
          2
  75
      66
          2
            *****
      48
  85
      49
  95
            ****
      44
 105
            *****
      35
 115
          1
 125
      43
            *****
          2
      55
 135
            *****
 145
      73
           *****
           ***********
 155
      94
          3
      91
 165
      80
 175
          3
            ******
      74
 185
          3
            ********
 195
      65
 205
      66
           ******
      63
 215
 225
      63
          2
           *****
 235
      51
          2
      57
 245
      52
 255
      49
 265
      44
 275
           *****
 285
      35
      39
 295
            ****
 305
      32
 315
      40
          1
           *****
 325
      61
          5
      94
            *******
 335
           *******
     111
         4
 345
            *******
 355
     130
         5
 365
       Ω
          0
 375
       0
 385
       0
          0
       0
 395
          0
```

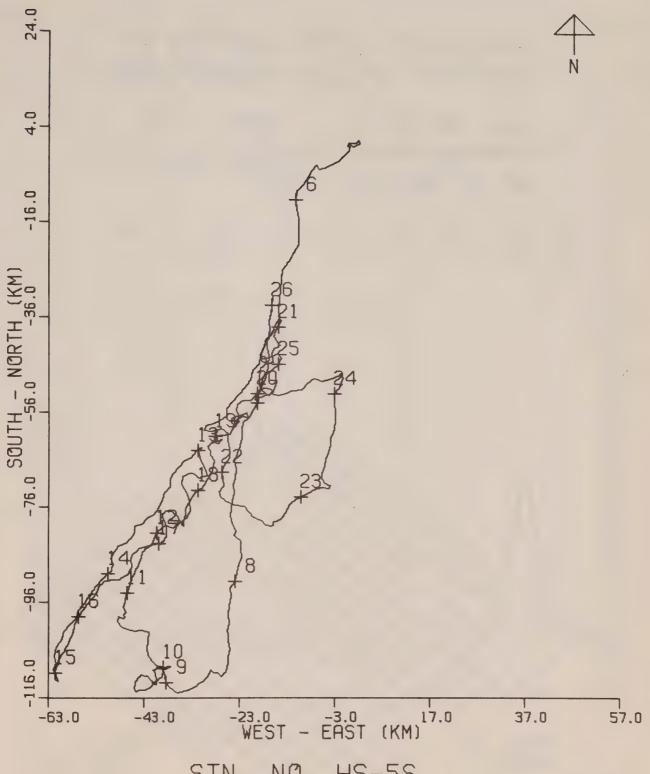
NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2694
SAMPLE INTERVAL = 10 MINUTES

# HISTOGRAM OF TEMPERATURE

# HOWE SOUND HS=55 DEPTH 7M. START DATE 17/01/73

```
120
                                          240
                                                  300
                                   180
      FREGINCY
                    60
MEDIAN
(DEG.C) NO. PCT .
      2
5.04
          0
      4
5,12
          0
      46
            ****
5,20
5.28
      80
            ********
          3
             *****
5.36
     124
          5
             ********
5.44
     156
          6
             *****
5.52
      146
          5
             ******
5,60
      91
          3
5,68
      127
          5
             *******
5.76
      76
          3
5.84
      117
             ******
5,92
      91
          3
             *****
             ***********
6.00
      181
6.08
      239
            **************
     160
             ********
6.16
          6
             ********
6.24
     177
          7
6.32
      78
          3
             *****
      76
6.40
          3
             *****
6.48
      38
          1
6.56
      23
          1
             我为会会
6.64
      18
          1
             安青安
6.72
      23
           1
             按方面会
6.80
      14
          1
             会会
      11
6.88
           0
6.96
      17
          1
             黄黄黄
7.04
      6
           0
7.12
       16
             ***
           1
7.20
      - 8
             *
           Ö
7.28
       26
           1
            黄宝黄黄
7.36
      38
           1
             ****
7.44
       65
           2
             ******
7.52
      108
             ******
           4
7.60
     114
           4
             **********
      94
7.68
           3
             ********
7.76
       72
           3
             *****
7.84
       32
          1
7.92
       0
           0
       0
           0
 8.00
 8.08
       0
           0
8,16
       0
           0
```

NO. OF SAMPLES OVER 8.20 = 0
NO. OF SAMPLES UNDER 5.00 = 0
TOTAL NO. OF OBSERVATIONS = 2694
SAMPLE INTERVAL = 10 MINUTES



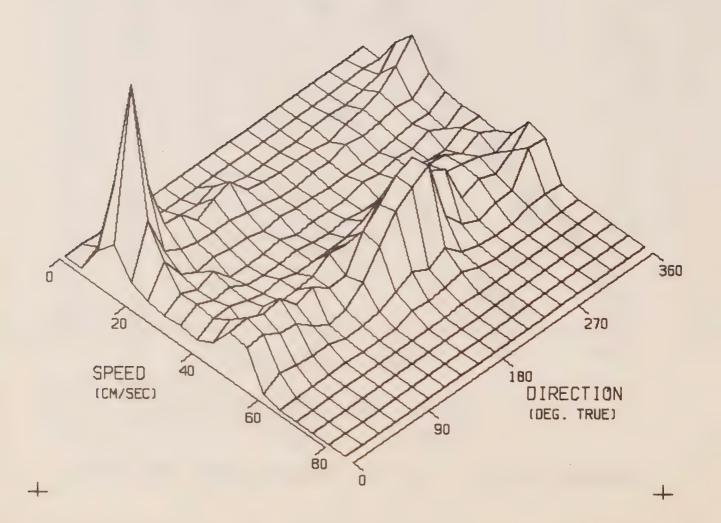
STN. NO. HS-5S DEPTH 7 M.

STARTING DATE: 5/ 2/73 ENDING DATE: 26/ 2/73

+

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5S DEPTH 7 M. STARTING DATE: 5/2/73 NO. OF SAMPLES = 3000



STN. NO. HS-5S DEPTH 7 M.

STARTING DATE: 5/ 2/73 SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) ... AND SPEED (MM/SEC).

### SPEED

	000	080			320		480			720			
	TO	TO	TO	10	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
		_		_									
0-14	005	057			013		041	014					217
15= 29	008	138	094	033	025	056	048	012					384
30= 44	014	080	042	019	019	012	038	011					235
45- 59	007	041	019	019	016	015	042	010				,	169
60- 74	004	011	015	013	011	018	030	008					110
75- 89	003	055	017	007	007	016	016	004	001				93
90-104	001	013	012	008	008	019	021	001					83
105=119		006	010	004	004	008	013	005					47
120-134		019	018	009	003	017	010	005					78
135=149		150	010	004	005	053	023	005					91
150=164		006	008	001	005	018	053	019					110
165=179		004	003	004	003	020	057	023	001				115
180=194		001	003	003	002	025	076	021	003				134
195=209		003	001	001	003	036	082	022	003				151
210-224		001	003		005	034	098	023	004				168
225=239		004		001	001	046	072	018	002				144
240-254		001	002	004	009	052	047	005					120
255=269		002	005	003	008	032	031	002					83
270=284		006	003	003	010	028	013						63
285=299		004	005	003	006	029	007	001					55
300-314		003	009	008	007	020	018	001					66
315-329	001	011	010	009	007	017	013	002					70
330=344	001	021	006	002	016	017	024	013					100
345=359	003	021	008	010	007	018	033	014					114
2424227	003	V 6. 4	000	0.40	(, 0 ,	0 1 0	ar war ar	., .					- 4 -
	47		356		200		906		14		0		3000
	~ /	496		183	2 4 0				•	()	.,	0	

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 0

#### HISTOGRAM OF SPEED

# HOWE SOUND HS-58 DEPTH 7M. START DATE 05/02/73

```
MEDIAN
     FREGINCY
                      120
                 60
                            180 240
                                          300
    NO. PCT .
(MM/S)
                             .
  9
     0
        0
 27
     7
         Ō
 45
     11
         0
          食食
 63
     23
         1
 81
     36
          ***
 99
     64
          ****
 117
     131
           *****
           ******
 135
    133
 153
    138
          *******
 171
     153
         5
          ******
 189
     81
         3
          ******
 207
     62
         2
           *****
 225
     48
         2
           ****
     37
 243
 261
     54
           ****
 279
     38
           ****
         1
 297
     40
         1
           ****
          ****
 315
     32
         1
 333
     85
         1
 351
     51
         2
           ****
     43
 369
        1
 3A7
     72
         2
           ****
          *****
 405
     8.0
        3
 423
    102
           *****
    119
 441
           ******
 459
    149
        5
 477
    190
          *******
        6
 495
     213
          ******
        7
 513
     214
           *********
 531
    236
          ********
 549
    168
 567
    111
        4
          *****
 585
    61
        2
          *****
 603
     39
        1
 621
     15
        1
          黄大黄
 639
     13
        0
          青寅
 657
     6
        0
          de
      5
 675
        0
 693
     0
        0
 711
     0
```

NO. OF SAMPLES OVER 720 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES

#### HISTOGRAM OF DIRECTION

HOWE SOUND HS-58 DEPTH 7M. START DATE 05/02/73

```
MEDIAN
     FREGINCY
                        120
                                180
                                       240
                                              300
                  60
(DEG.T) NO. PCT .
  5
     141
  15
     215
          7
            *********
  25
     267
            ***********
  35
     153
          5
     122
  45
            **********
  55
     119
          4
            *****
     69
  65
          2 *********
      65
  75
          2
           ******
  85
      61
          2 ********
  95
      61
          2 ********
 105
      32
          1
            ***
     35
 115
          1
      55
          2
 125
           ****
 135
     68
          2 ********
 145
      51
          2
      76
 155
           *****
          3
          2 *********
 165
     66
 175
     89
          3
            ******
 185
      78
          3
            ********
 195
     109
      96
          3
            *****
 205
            *******
 215
     118
 225
     110
         4
            *****
     83
 235
          3
      81
 245
 255
      67
           *****
      53
 265
          2
            *****
 275
     48
          ******
      29
 285
          1
            ****
 295
      38
          1
            ****
 305
      48
          2 ******
      43
 315
            *****
          1
      49
            ****
 325
          2
 335
      63
          2 ********
 345
      76
          3
            *****
 355
      66
            *****
 365
      0
          0
 375
       0
          0
 385
      0
          0
 395
       0
          0
```

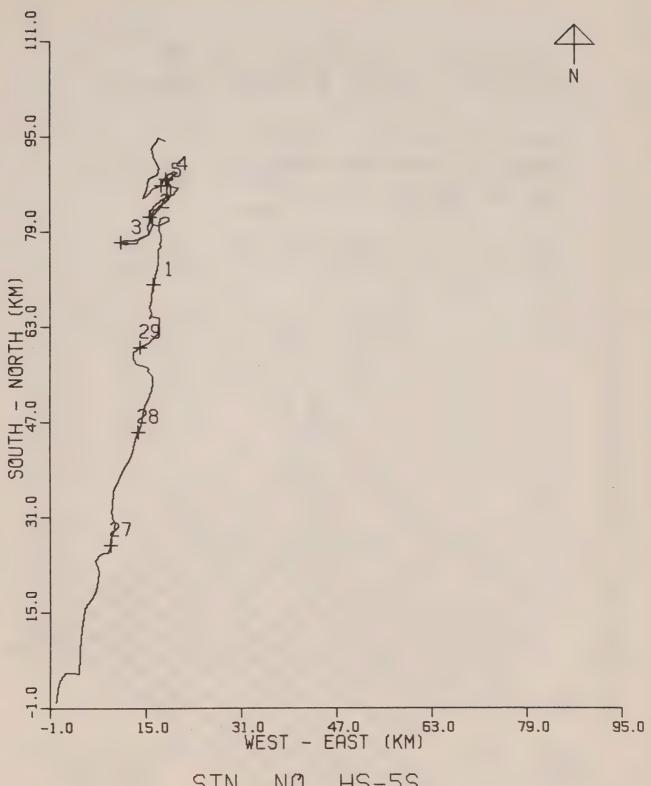
NO. OF SAMPLES OVER 400 = .0 NO. OF SAMPLES UNDER 0 = 0 TOTAL NO. OF OBSERVATIONS = 3000 SAMPLE INTERVAL = 10 MINUTES

# HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-58 DEPTH 7M. START DATE 05/02/73

```
100
                               200
                                                 400
MEDIAN
       FREGINCY
                                        300
                                                          500
(DEG.C) NO. PCT
5.92
       0
5,96
         0
            0
6.00
        1
            0
6.04
        0
            0
        2
 6.08
            0
6,12
        9
            0
6.16
        41
            1
               ***
6.20
       48
            2
               ****
6,24
       44
            1
6.28
       72
            2
               ****
6.32
      119
            4
               *****
6.36
               **********
      478
           16
6.40
       274
            9
               ********
6.44
            7
      201
6.48
      162
            5
               ******
6.52
       218
            7
               *******
6.56
      181
            6
               ******
               *********
6.60
      355
           12
6.64
      114
           4
      86
            3
6.68
               *****
6.72
       56
            2
               ****
6.76
       80
            3
               ****
6,80
        89
            3
               *****
6.84
        23
            1
6.88
        25
            1
               ***
6,92
       59
            2
               ****
6.96
       63
            2
 7.00
               ********
       138
            5
 7.04
            2
        46
 7.08
        9
            0
 7.12
        7
            0
7.16
        0
            0
7.20
        0
            0
7.24
        0
            0
 7.28
        0
            0
7.32
        0
            0
7,36
        0
            0
7,40
        0
            0
7.44
            0
        0
7,48
        0
            0
```

NO. OF SAMPLES OVER 7.50 = 0
NO. OF SAMPLES UNDER 5.90 = 0
TOTAL NO. OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES

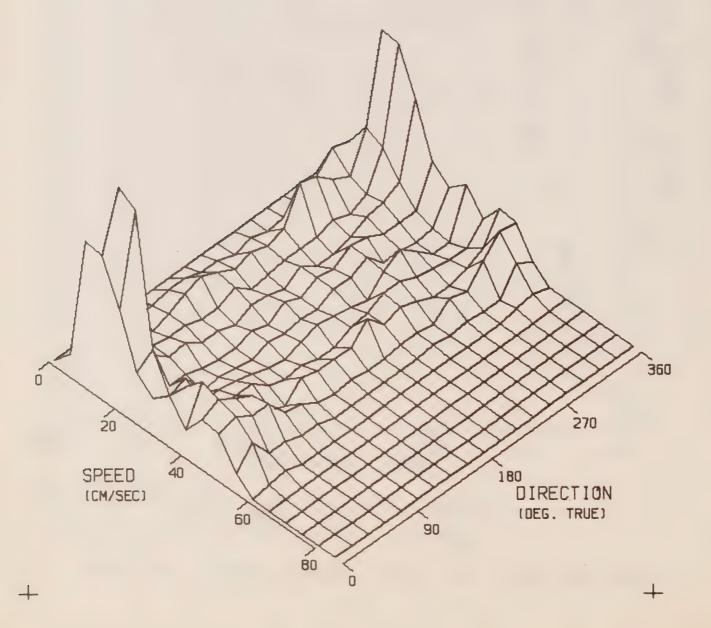


STN. NO. HS-5S DEPTH 7 M.

STARTING DATE: 26/ 2/73 ENDING DATE: 5/ 3/73

FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5S DEPTH 7 M. STARTING DATE: 26/2/73 NO. OF SAMPLES = 1217



STN. NO. HS=58 DEPTH 7 M.

STARTING DATE: 26/ 2/73 SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

# SPEED

								560		720	800	880	
	TO	TO			TO			TO			TO	TO	
DIR	079	159	259	319	399	479	559	639	719	799	879	959	
0= 14	007	073	150	021	017	021	015	0.01					71.4.41
15= 29	005	057	069	047	021	0 + 0	017	004					214
30= 44	004	019			005	-	017						209
45= 59	003	016			007	_	008						84
60= 74	004	005	007	003	002		013	002					60
75= 89	003	004	005	002	007		005	001					45
90-104	003	004		001	006		006	O O I					33
105-119	003	008		001	_		000						24
120-134	001		005				001						50
135=149	005	006		003		003	001						14
150=164	001	010			002								18
165=179		003		001			001						21
180=194		001		004	004	003	0.0.1						14
195=209	(, 0 5	006		001	004								15
210-224	002	005		006	001	006							19
225=239	002	V O D	-	003	003		002						24
240=254		011			005		001						19
255=269	0.01	013	005	006	010		100						31 36
270-284		018			011		004	0.01					48
285=299	005	003	005	001	007	200	003	001					26
300-314	004	008			003		003						27
315=329	013	008		001	001	0 () =	006	0.01					37
330=344	007	021		003				005					68
345-359		044						003					111
	000	() <b>uq</b> -u	7.4	17 4 49	001	V 1 ()	013	0.00					1 1 1
	82		231		125		130		0		0		1217
		348		107		178		16		0		0	

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 0

# HISTOGRAM OF SPEED

HOWE SOUND HS-58 DEPTH -7M. START DATE 26/02/73

```
MEDIAN
      FREGINCY
                    30
                                   90 120
                            60
                                                  150
(MM/S)
     NO. PCT .
  8
      0
         0
  24
       - 1
          0
  40
      19
          2
             ****
  56
      38 3 ********
  72
      24
             *****
      52
  88
             *****
      91
 104
             *********
 120
      87
 136
      64
          5
             *****
 152
      54
          4
             ******
      54
 168
             *****
 184
      60
          5
             *******
 200
      52
 216
      43
          4 ********
 232
      3.1
          3
             ******
 248
      21
          5
 264
      25
          2
             ***
      15
 280
          1
 296
      18
          1
             *****
      19
 312
          2
 328
      27
          2
 344
      21
          2
 360
      32
          3
 376
      27
          5
             *****
 392
      26
          2
 408
      23
          2
 424
      41
          3
             ********
          4
 440
      44
      30
 456
          2
             ****
 472
      32
          3
             ******
 488
      85
          2
 504
      34
          3
             ******
 520
      43
 536
      15
          1
 552
      14
          1
 568
      6
          0
 584
       5
          0
 600
       1
          0
 616
       3
          0
 632
       0
```

NO. OF SAMPLES OVER 640 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 1217
SAMPLE INTERVAL = 10 MINUTES

# HISTOGRAM OF DIRECTION

HOWE SOUND HS-58 DEPTH 7M. START DATE 26/02/73

```
MEDIAN FREGINCY
                    50
                      100
                                   150
                                          200
                                                   250
(DEG.T) NO. PCT .
  5
     148 12
             ********
  15
      162 13 *******************
  25
     124
         10
            *********
  35
      51 4
  45
      51
          4 ******
      32
  55
          3
             ****
  65
      38 3 *****
  75
      19 2
             ***
             ****
  85
      23
          2
  95
      17
             ***
          1
 105
      10
             **
          1
      14
 115
          1
             **
 125
      10
             * *
          1
 135
      9
             **
          1
 145
      16
          1
             * * *
 155
      9
             * *
          1
 165
      15
          1
             ***
      8
 175
          1
             * *
 185
      13
             ***
          1
 195
      12
          1
             * *
      12
 205
             * *
          1
 215
      1.1
             **
          1
 225
      19
          2
 235
      10
             * *
          1
 245
      19
          2
             ***
 255
      23
          2
      28
          2
             ****
 265
      40
            *****
 275
          3
 285
      - 11
          1
             * *
 295
      20
          2
             ***
     19 2
 305
      29
          2
 315
            ****
          2
 325
      21
            ***
 335
      36
            *****
          3
         5
 345
      60
             *****
      78 6
 355
             *********
 365
      0
          . 0
 375
       0
          0
      0
 385
       0
 395
          0
```

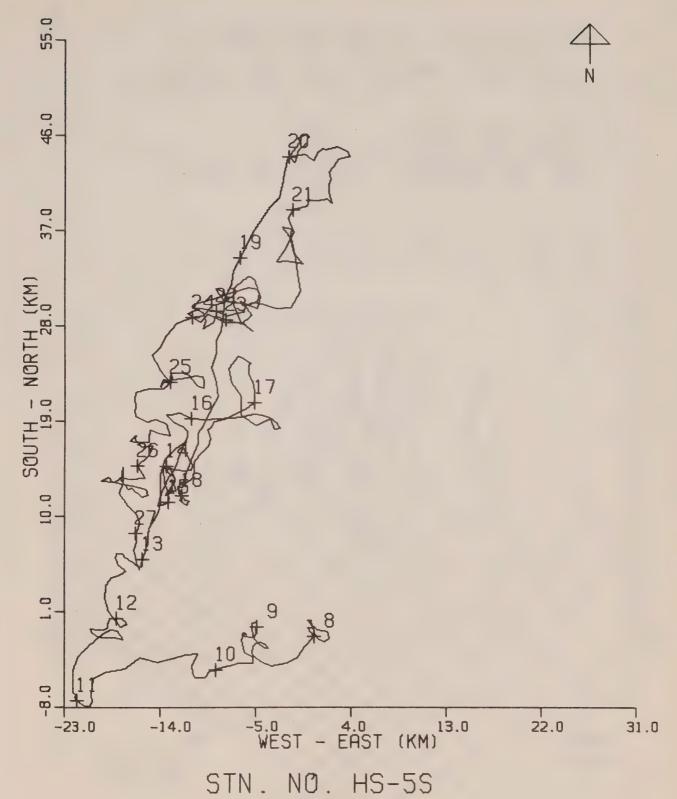
NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 1217
SAMPLE INTERVAL = 10 MINUTES

HISTOGRAM OF TEMPERATURE

HOWE SOUND HS+55 DEPTH 7M, START DATE 26/02/73

MEDIAN	FREG	BINCY	160	320	480	640	800
(DEG.C)							
6,21	0	0	•	•		•	·
6,23	0	0					
6,25	0	0					
6,27	0	0					
6.29	0	0					
6.31	0	0					
6.33	0	0					
6.35	0	0					
6.37	0	0					
6.39	0	0					
6,41	0	0					
6.43	0	0					
6.45	0	0					
6,47	0	0					
6.49	0	0					
6,51	18	1	*				
6,53	0	0					
6.55	32	3	**				
6.57	0	0					
6,59	28	2	**				
6.61	147	12	****				
6.63	0	0					
6.65	355	29	*****	****			
6.67	0	0					
6.69	583	48	*****	******	*****		
6,71	45	4	***				
6,73	0	0					
6.75	9	1 -	%				
6.77	0	0					
6.79	0	0					
6.81	0	0					
6.83	0	0					
6,85	0	0					
6.87	0	0					
6.89	O	0					
6.91	0	0					
6,93	0	0					
6.95	0	0					
6,97	0	0					
6.99	0	0					

NO. OF SAMPLES OVER 7.00 = 0 NO. OF SAMPLES UNDER 6.20 = 0 TOTAL NO. OF OBSERVATIONS = 1217 SAMPLE INTERVAL = 10 MINUTES



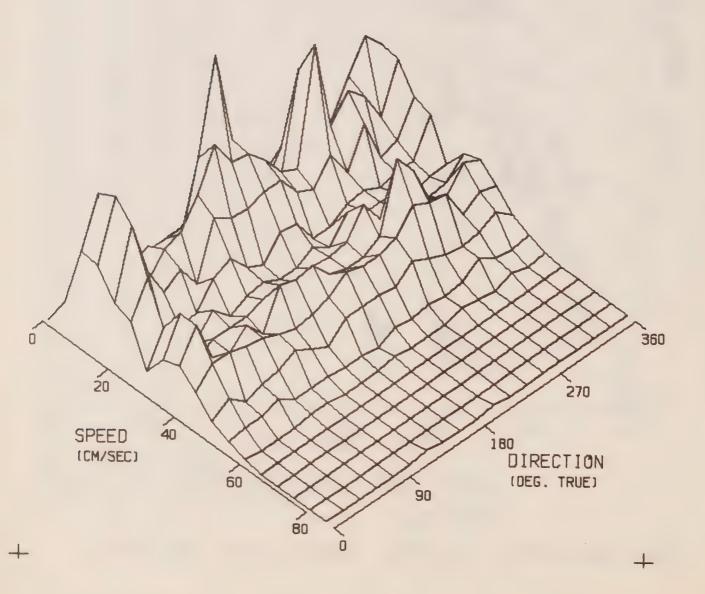
DEPTH 7 M.

STARTING DATE: 7/ 3/73 ENDING DATE: 27/ 3/73

+

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5S DEPTH 7 M. STARTING DATE: 7/3/73 NO. OF SAMPLES = 2875



STN. NO. HS=58 DEPTH 7 M.

STARTING DATE: 7/ 3/73 SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

#### SPEFD

	000	080	160			400			640	720	800	880	
ntn	TO	TO	TO	TO	TO	TO	TO		TO	TO	TO	TO	
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
0- 14	009	044	036	015	023	015	009						151
15= 29	006	061	061	028	034	026	011	001					228
30= 44	007	034	033	013	012	020	003						122
45= 59		055	013	006	012	018	010	001					82
60- 74	005	019	013	009	007	013	008	001					72
75= 89	003	027	150	011	015	022	006	001					106
90-104	001	017	017	010	013	009	008	001					76
105=119	005	021	021	016	013	019	005	001			001		99
120-134	001	030	040	016	011	016	006				001		120
135-149	007	046	026	013	023	016	005						136
150-164	014	068	031	005	014	055	006						160
165+179	011	054	023	017	150	023	007						156
180=194	003	039	025	011	010	014	007	001					
195=209	002	027	026	012	013	020	010	001			001		110
210=224	003	027	017	007	009	013	009				001		111
225=239	001	014	013	008	018	026	010						85
240=254	003	021	017	015	025	018	009	001					90
255=269	012	060	043	012	055	037	008	002					109
270-284	012	032	018	013	018	031	009	001					196
285=299	002	030	023	011	018	023	009	001					134
300=314	006	032	025	009	011	019	005	003					117
315=329	006	030	010	009	008	011	008	001					110
330-344	010	034	018	005	014	019	009	001					83
345-359	007	037	015		014	017		001					109
		V 🕽 🔻	V * J	010	014	017	000	001					113
	130		585		378		183		0		2		2875
		826		287		467		17		0	-	0	20/3

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 0

HISTOGRAM OF SPEED

## HOWE SOUND HS-58 DEPTH 7M. START DATE 07/03/73

MEDIAN (MM/S)	FREQIN	T .	50 •	100	150	20	0	250
8		0						
24	_	0 *						
40		-	***					
56 72		-	***					
88		3 * 5 *	****					
_		-	*****					
104			*****					
136		6 *	*****			***	**	
152			*****					
168	-	-	*****************					
184		otes.	*****					
200		44	*******		# <b>#</b>			
216			****					
232			*****					
248			· · · · · · · · · · · · · · · · · · ·					
264		-	*****					
280			*****					
296		at.	*****					
312		en.	*****					
328		-	*****					
344			****					
360			*****					
376		eria.	*******	* *				
392		ale.	*****	<del></del>				
408			*****	^				
424			******	****				
440	_	4.	******	- ,				
456	89		*****					
472	63	2 *	*****					
488	75	3 *	*****					
504	40	1 .*	****					
520	30	1 *	***					
536	29	1	****					
552	11 (	0 *	*					
568		0 *						
584		0 *	*					
600		)						
616		)						
632	0 (	)						

NO. OF SAMPLES OVER 640 = 2
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2875
SAMPLE INTERVAL = 10 MINUTES

### HISTOGRAM OF DIRECTION

HOWE SOUND HS-58 DEPTH 7M. START DATE 07/03/73

```
MEDIAN
    FREGINCY
             30
                   60
                       . 90
                             120
                                  150
(DEG.T) NO. PCT
  5
    104
         ********
 15
    141
         25
    145
       5
         35
    86
       3
         *******
 45
    60
       2
         ******
 55
    51
       2
         ******
 65
    51
       2
         ****
 75
    55
       2
 85
    75
       3
         *******
 95
    49
       2
         *****
 105
    57
115
    73
       3
         ********
125
    79
       3
         *******
135
    76
       3
         *******
145
    104
       4
         **********
155
    104
       4
165
    103
        *******
175
    103
        **********
185
    68
195
    77
       3
        *******
205
    73
        ********
       3
215
    62
        *****
225
    53
        *****
235
    60
245
    70
        ******
255
    106
        **********
265
   135
       5
        **********
275
    88
       3
        *******
285
    74
       3
295
    83
       3
        ********
305
    69
       2
        *********
315
    71
        *********
325
    53
        ******
335
    75
       3
        *******
345
    70
       2
        *******
    72
355
        *******
365
    0
375
     0
       0
385
     0
       ۵
395
     0
```

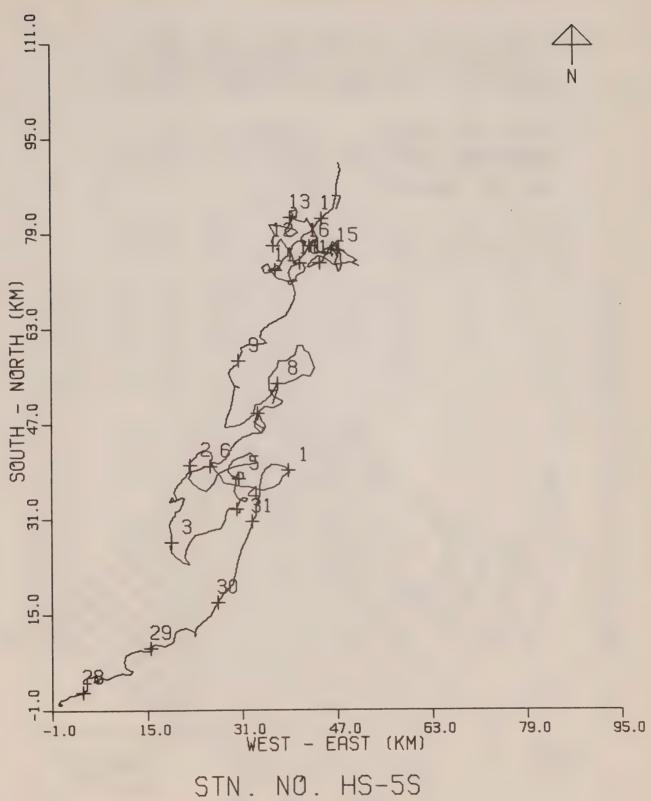
NO. OF SAMPLES OVER: 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2875
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

## HOWE SOUND HS-58 DEPTH 7M. START DATE 07/03/73

MEDIAN		RINCY	120	240	360	480	600
(DEG.C)	NO.	PCT ,					
6,51	0	0					
6,53	0	0					
6,55	0	0					
6.57	0	0					
6,59	0	0					
6.61	0	0					
6.63	0	0					
6.65	0	0					
6.67	0	0					
6,69	230	8	******	****			
6,71	219	8	******	*****			
6,73	0	0					
6,75	95	3	*****				
6.77	0	0					
6.79	137	5	******				
6.81	150	5	*****	k 🖈			
6,83	0	0					
6,85	526	8	******	****			
6.87	0	0					
6.89	294	10	*****	*****			
6,91	406	14		*******			
6,93	0	0					
6,95	364	13	*****	*******	*****		
6,97	0	0					
6,99	349	12	*****	*******	****		
7.01	208	7	******				
7.03	0	0					
7.05	138	5.	*****				
7.07	0	0					
7.09	43	1	***				
7.11	13	0	*				
7,13	0	0					
7,15	2	0					
7.17	0	0					
7.19	0	0					
7,21	0	0					
7.23	0	0					
7.25	1	0					
7.27	0	0					
7.29	0	0					

NO. OF SAMPLES OVER 7.30 = 0
NO. OF SAMPLES UNDER 6.50 = 0
TOTAL NO. OF OBSERVATIONS = 2875
SAMPLE INTERVAL = 10 MINUTES

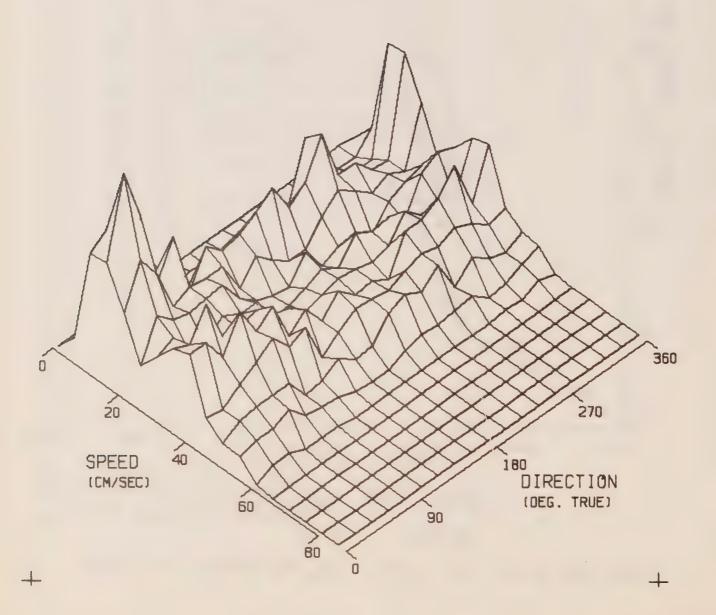


DEPTH 7 M.

STARTING DATE: 27/ 3/73 ENDING DATE: 17/ 4/73

## FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5S DEPTH 7 M. STARTING DATE: 27/ 3/73
NO. OF SAMPLES = 3000



STN. NO. HS=58 DEPTH 7 M. STARTING DATE:27/ 3/73 SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

## SPEED

	000	080 TO	160 TO	240 TO	320 TO	400 TO	480		640	720	800	880	
DIR	079	159	239	319	399	479	559	10	TO	10	TO	TO	
U a n	017	137	237	217	377	4/4	224	639	719	799	879	959	
0= 14	006	059	050	025	038	023	009	004					214
15= 29	009	083	070	030	038	022	014	006					272
30- 44	008	094	045	027	026	055	015	005					242
45- 59	003	043	019	023	042	030	010	004					174
60- 74	002	037	027	016	030	037	015	005					169
75= 89	001	037	024	028	029	020	014	001					154
90=104	001	018	028	028	030	025	006	002					138
105=119		015	023	017	025	026	005	0.01					112
120-134		018	031	014	017	015	006						101
135=149	0.05	018	012	008	014	015	004						73
150-164	001	021	013	006	011	015	004						71
165=179	001	027	019	008	008	011	004						78
180=194	002	015	011	013	020	021	003						85
195-209		020	011	015	015	015	014						90
210=224	001	016	010	006	014	015	011						73
225#239	001	019	016	016	014	018	012	001					97
240+254	001	023	012	013	008	016	014	001					88
255-269	001	056	022	016	018	026	016						155
270=284		019	015	010	021	020	009	001					95
285=299		021	016	010	027	023	008	001					106
300=314		007	014	018	055	024	006	001					92
315-329	001	006	013	055	020	030	007						99
330=344	001	007	011	020	021	015	008	004					87
345=359	004	035	013	033	027	015	006	002					135
	46		525		535		550		0		0		3000
		714		422		499		39		0		0	

NO. OF SPEFDS EXCEEDING 960 MM/SEC = 0

HISTOGRAM OF SPEED

HOWE SOUND HS-59 DEPTH 7M, START DATE 27/03/73

```
200
                                             250
     FREGINCY
                  50
                        100
                               150
MEDIAN
(MM/S)
     NO. PCT .
                                .
                                              .
  8
      0
         0
  24
       1
         0
  40
      4
         0
  56
      14
         0
      27
  72
           安安安安安
     93
         3
 88
           *****
 104
     121
         4
           **********
     171
           ***********
 120
         6
     169
           *********
 136
         6
         5
 152
     160
           *********
     125
           *******
 168
         4
         5
 184
     140
           ********
      99
 200
         3
           ******
      93
 216
         3
           *******
 232
     87
         3
           ******
         2
 248
      61
           *******
 264
      83
         3
           ******
      86
 280
         3
 296
      84
         3
           **********
     89
         3
 312
           ******
 328
     108
         4
           *******
           *******
 344
     116
         4
     107
 360
           *******
 376
     113
         4
           *******
     112
 392
           *******
 408
     83
         3.
           *******
 424
     128
         4
           ********
      99
 440
         3 .
           ******
      94
 456
         3
           **********
 472
      74
         2
           ******
 488
      71
         2
           *****
 504
      70
           ********
      28
 520
 536
      31
         1
           ***
 552
      25
 568
      18
           ***
         1
 584
      10
           黄黄
         0
 600
      5
         0
 616
       1
         0
 632
      0
         0
```

NO. OF SAMPLES OVER 640 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES

### HISTOGRAM OF DIRECTION

## HOWE SOUND HS-55 DEPTH 7M. START DATE 27/03/73

```
MEDIAN
     FREGINCY
                   50
                         100 150
                                        200
                                               250
(DEG.T) NO. PCT
  5
     167
          6
            ********
  15
     144
           ********
  25
     192
            **********
  35
     160
           **********
  45
     144
            *******
  55
     109
  65
     108
          4
           ***********
  75
     113
 . 85
     102
           ******
  95
      90
            *******
 105
      80
          3
 115
      72
          2
           ********
 125
      71
            *****
 135
      60
 145
      43
            *****
 155
      39
          1
            ****
 165
      56
            ******
 175
      56
            *****
 185
      56
            ******
 195
      47
 205
      75
          3
            *****
 215
      38
 225
      63
            ********
 235
      62
            *******
 245
      60
 255
      80
          3
            *********
 265
     105
 275
      60
          2
           *****
 285
      71
            *****
      69
 295
 305
      58
            ******
 315
      67
            ********
 325
      71
          5
            ********
 335
      48
          2
            *****
 345
      70
            *********
 355
      94
          3
            *******
      0
 365
 375
      ()
         0
 385
       0
          0
 395
```

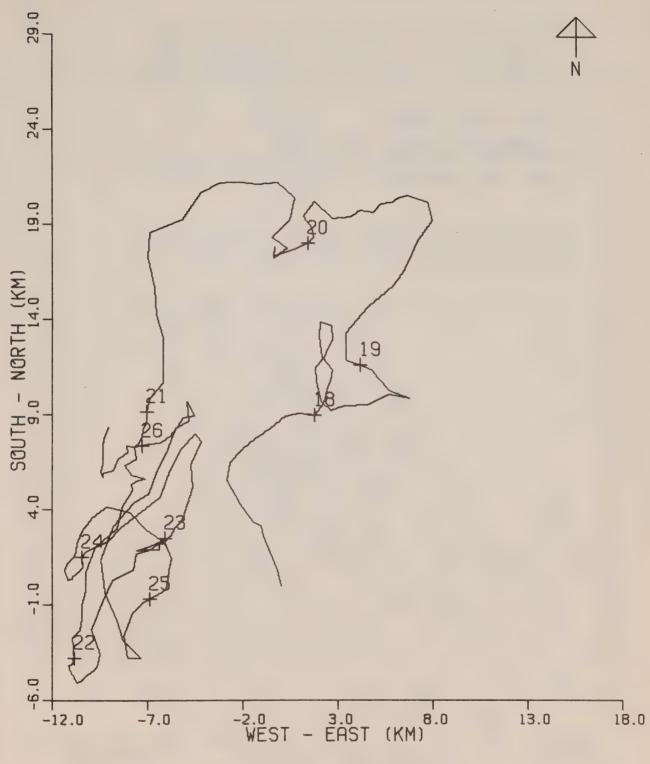
NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES

#### HISTOGRAM OF TEMPERATURE

HOWE SOUND HS=58 DEPTH 7M. START DATE 27/03/73

```
MEDIAN
       FREGINCY
                       100
                                200
                                         300
                                                  400
                                                            500
(DEG.C) NO. PCT .
                       .
                                 .
                                          .
                                                   .
                                                             9
6,88
       10
            0
6.94
            2
               ****
       64
               ******
7.00
       327
           11
7,06
        25
            1
7.12
       3
            0
        85
7,18
            3
7.24
       93
            3
               *****
7.30
       71
            2
               *****
       203
7.36
            7
               ******
7.42
       89
            3
7,48
       284
            9
7.54
               **********
       447
           15
7.60
       357
               ********
           12
       297
7.66
               **********
           10
7.72
       97
            3
               *****
7,78
       106
               *****
7.84
       55
            2
               ****
7,90
       44
               ***
            1
7,96
       14
            0
               黃
8.02
       16
            1
               * *
8,08
        25
            1
8,14
        13
            0
8,20
       13
            0
8.26
        55
               食食
            1
8.32
       8
               *
            0
8.38
        20
            1
8.44
        23
               黄黄
            1
8,50
       25
            1 -
8,56
        14
            0
               rk
8,62
        7
            0
8,68
        12
            0
8.74
        - 8
            0
8,80
        26
            1
               ***
8,86
        30
            1
               * * *
8,92
        11
               *
            0
8,98
        26
            1
9.04
        11
            0
9.10
        8
            0
9,16
        7
            0
9.22
         0
            0
```

NO. OF SAMPLES OVER 9.25 = 4
NO. OF SAMPLES UNDER 6.85 = 0
TOTAL NO. OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES

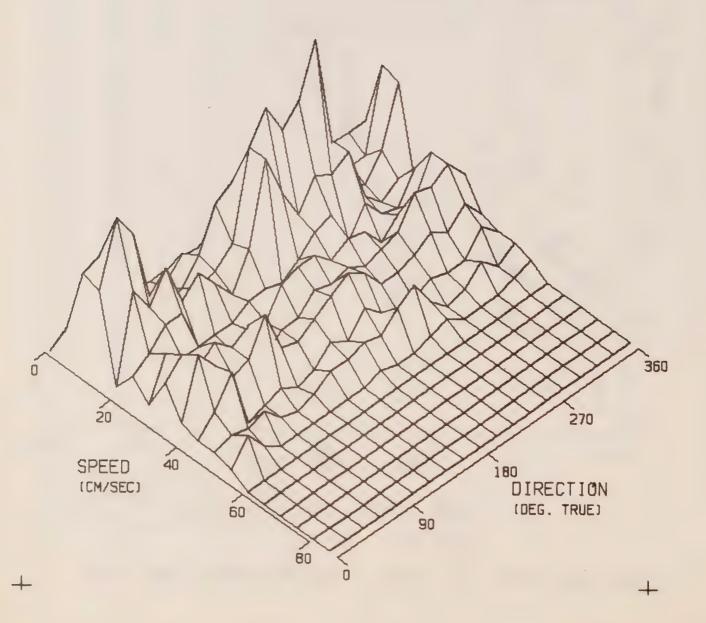


STN. NO. HS-5S DEPTH 7 M.

STARTING DATE: 17/ 4/73 ENDING DATE: 26/ 4/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5S DEPTH 7 M. STARTING DATE: 17/ 4/73
NO. OF SAMPLES = 1331



STN. NO. HS-5S DEPTH 7 M.

STARTING DATE: 17/ 4/73
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

#### SPEED

	000	080	160	240	320	400	480	560	640	720	800	880	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
0= 14	006	025	008	004	004	007	005						59
15= 29	009	032	023	014	016	011	008	001					114
30= 44	007	850	018	008	010	013	004						-88
45= 59	002	021	022	010	012	004	003						74
60= 74	001	012	014	009	011	002	003						52
75= 89		0.07	009		008	004							28
90=104		003	011	002	010	007							33
105-119	001	001	007	002	011	001							23
120=134		005	008	003	005		001					٠.	55
135=149	005	009	003	004	003	003	003						30
150-164	002	013	014	800	010	004	001						52
165=179	006	026	015	011	009	006	500						75
180=194	002	026	021	007	005	005	005						71
195=209	001	024	020	008	012	008	001						74
210-224	001	014	014	014	011	006	004						64
225=239	003	017	018	007	006	005	003						59
240-254	008	022	015	011	005	200	005						68
255-269	002	040	022	003	008	002	004						81
270-284		013	021	008	007	005	001						55
285-299	001	004	007	009	010	004							35
300-314	001	004	009	004	014	007	001	1					40
315=329	006	002	003	006	009	200	003						31
330-344	005	500	006	010	017	008	001	001					50
345=359	003	020	002	008	015	004	001	-					53
		*185					-						2.5
	72		310		855		59		0		0		1331
		370		170	41101	120		2		0	· ·	0	

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 0

#### HISTOGRAM OF SPEED

### HOWE SOUND HS-58 DEPTH 7M. START DATE 17/04/73

```
MEDIAN
     FREGINCY
                 20
                       40
                                     80
                                           100
                              60
(B/MM)
    NO. PCT .
                                           .
  7
      0
         0
 21
      6
           黄黄金
         0
      7
 35
         1
     17
 49
           *****
         1
 63
     24
           *****
 77
     30
         2
           *****
 91
     63
           *******
         5
 105
     51
           **********
 119
     77
           *********
         6
 133
     66
         5
           *********
 147
     76
           *******
         6
 161
     76
           **********
         6
 175
     53
           *********
 189
     64
         5
           ********
 203
     44
         3
           *******
 217
     67
         5
           ********
 231
     31
           *********
     23
 245
         2
 259
     44
         3
           ********
 273
     18
         1
           ******
 287
     38
         3
           ******
     18
 301
     52
 315
           *******
 329
     38
         3
           *******
 343
     24
           *******
 357
     45
         3
           ********
     43
           *******
 371
         3
 385
     44
         3.
           ******
 399
     85
 413
     29
 427
     24
           *****
    . 14
 441
         1
           ****
     25
 455
         2
           ******
 469
     8
         1
 483
     21
         2
           *****
 497
     15
           *****
 511
     13
         1
           ****
      7
 525
         1
 539
      3
         Ö
           **
 553
      8
        1
           ***
```

NO. OF SAMPLES OVER 560 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 1331
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-58 DEPTH 7M. START DATE 17/04/73

```
MEDIAN
     FREGINCY
                 20
                        40
                               60
                                     80
                                            100
(DEG.T) NO. PCT
  5
      42
         3
           *******
  15
      67
           *********
 25
      66
           **********
 35
      63
         5
          · 方面实实实实实实实实实实实实实实实实实实实实实实实实实实实实实实现。
 45
      53
           ******
 55
     48
          ********
 65
      35
         3
           ******
 75
     23
         2
           ******
 85
     18
           ****
 95
     26
         2
           *****
 105
     18
         1
           ****
 115
     13
         1
           ****
 125
     18
         1
           ****
 135
      9
         1
           ****
 145
     33
         2
           ******
 155
     26
           *****
 165
     39
         3
           *****
 175
     57
           ******
 185
     48
         4
           ********
 195
     52
         4
           *******
 205
     45
         3
           ******
 215
     40
         3
           *****
 225
     38
         3
           ******
 235
     42
         3
           *******
245
     56
         4
           *******
 255
     45
         3
           *******
265
     53
           *********
275
     37
         3
           *****
 285
     25
           *******
295
     23
         2
           *****
305
     23
         2
           *****
315
     30
         2
           *********
325
     18
           ****
335
     32
         2
           *****
345
     39
         3
           ******
355
     31
         2
           ********
365
      0
         0
375
      0
         0
385
      0
         Ô
395
      0
         0
```

NO. OF SAMPLES OVER 400 = 0 NO. OF SAMPLES UNDER 0 = 0 TOTAL NO. OF OBSERVATIONS = 1331 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

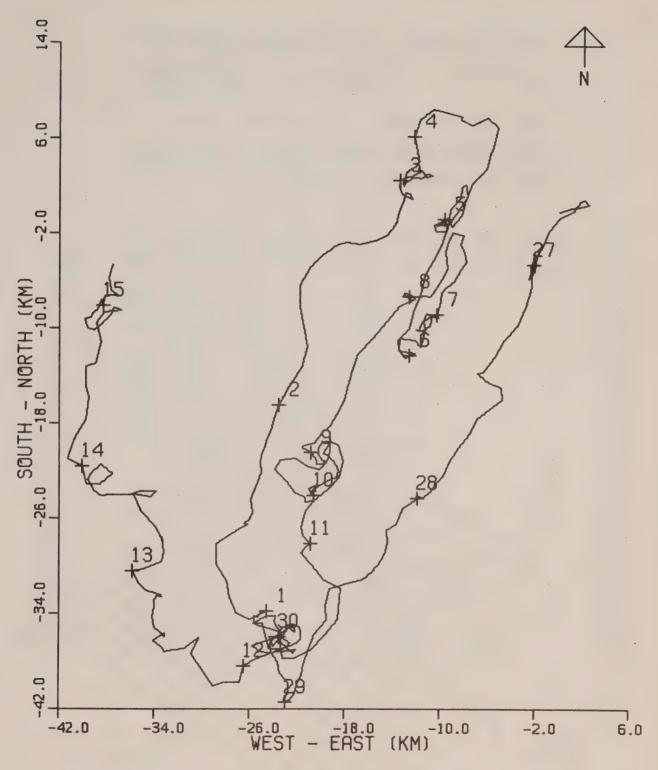
HOWE SOUND HS-58 DEPTH 7M. START DATE 17/04/73

```
MEDIAN
      FREGINCY
                                    90
                    30
                            60
                                           120
                                                   150
(DEG.C) NO. PCT
7.33
       0
          0
7.39
       0
          0
7.45
       0
7,51
       0
          Ō
7.57
       Ö
          0
7.63
       1
          0
7,69
       2
          0
7,75
       5
          0
7.81
       4
          0
7.87
       8
          1
             黄黄金
7,93
      32
          2
             ****
7,99
      53
             ******
      19
8.05
          1
8.11
      74
          6
             大大大大大大大大大大大大大大大大大大大大大大大大
8,17
      55
          4
             *****
8,23
      73
          5
             ********
8.29
      59
          4
             ******
8,35
      31
8.41
      52
          4
             ******
8,47
      55
          4
             ******
8,53
      51
          4
             *****
8.59
      41
          3
             *****
8.65
      29
          2
8.71
      76
          6
             *****
8.77
      60
          5
             *****
8,83
      78
             *******
          6
8.89
      67
          5
             *****
8.95
      43
          3
9.01
      65
          5
             ******
9,07
      94
          7
             **********
9.13
     143
             **************
         11
9,19
      43
          3
             ******
9,25
      13
             资金资金
9,31
       5
          0
             * *
9,37
       0
          0
9.43
       Ö
          0
9.49
       0
          Ö
9,55
       0
          0
9,61
       0
          0
9,67
       0
          0
```

NO. OF SAMPLES OVER 9.70 = 0
NO. OF SAMPLES UNDER 7.30 = 0
TOTAL NO. OF OBSERVATIONS = 1331
SAMPLE INTERVAL = 10 MINUTES

DATA FOR 10-METRE DEPTH



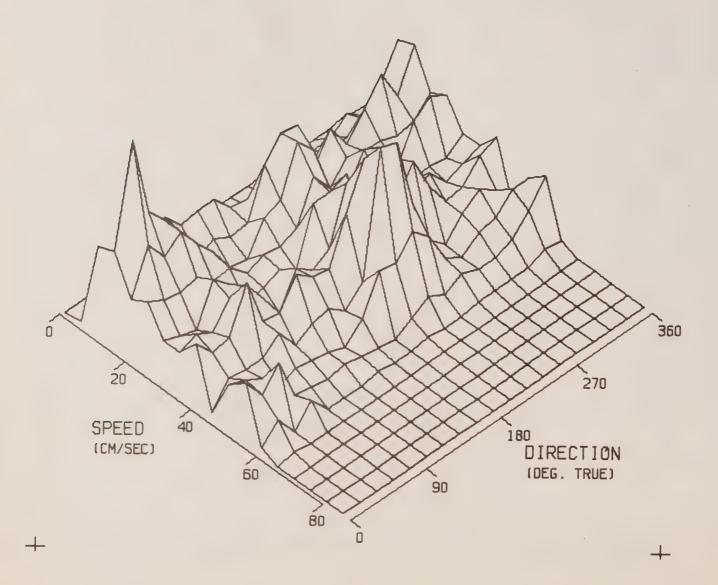


STN. NØ. HS-5N DEPTH 10 M.

STARTING DATE: 26/ 4/73 ENDING DATE: 15/ 5/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N DEPTH 10 M. STARTING DATE: 26/ 4/73
NO. OF SAMPLES = 2720



STN. NO. HS-5N DEPTH 10 M.

STARTING DATE:26/ 4/73 SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)
AND SPEED (MM/SEC).

## SPEED

000 080 160 240 320 400 480 740

DIR	TO 079	159	TO	TO	TO	TO	TO	TO	640 TO 719	720 TO 799	800 TO 879	880 TO 959	
0 = 14 15 = 29 30 = 44 45 = 59 60 = 74 75 = 89 90 = 104 105 = 119 120 = 134 135 = 149 150 = 164 165 = 179 180 = 194 195 = 209 210 = 224 225 = 239 240 = 254 255 = 269 270 = 284 285 = 299 300 = 314 315 = 329	003 005 005 002 001 002 004 006 002 001 002 003 003 003 005 005	035 035 035 037 036 014 020 018 018 010 017 022 013 025 016 012 011 013 023	239 028 039 031 029 032 017 015 011 024 027 041 025 020 012 023 017 029 019 016	319 024 013 011 023 021 017 016 010 018 021 019 019 010 013 021	399 018 019 010 029 021 017 010 012 021 026 031 027 019 024 027 019 013 018 009		559 020 015 019 006 005 003 002 004 003 010 011 013 016 020 013 007 003	639 005 007 002 005 003 001 001				70 959	148 164 122 139 130 109 72 67 68 83 54 101 144 189 176 138 102 122 84 86 92
330=344 345=359		920		016	014	020		006					118
	60	545	523	424	437	446	238	46	0	0	0	0	2719

NO'. OF SPEEDS EXCEEDING 960 MM/SEC # 1

HISTOGRAM OF SPEED

## HOWE SOUND HS=5N DEPTH 10M. START DATE 26/04/73

MEDIAN	FREG	INCY	40	80	120	160	200
(MM/S)	NO.	PCT	• •				
8	0	0					
24	0	0					
40	5	0	*				
56	18	1	****				
72	37	1	*****				
88	67	2	*****	*			
104	97	4	*****	****			
120	126	5	*****				
136	123	5	*****	****	*****		
152	132	5	*****				
168	120	4	*****	****	****		
184	99	4	*****	*****	*		
200	106	4	*****	****	***		
216	112	4	*****	*****	***		
232	111	4	*****	****	***		
248	67	2	*****	k			
264	91	- 3	******	*****			
280	85	3	*****	****			
296	95	3	*******	****			
312	61	2	*****				
328	81	3	*****	****			
344	94	3	*********	*****			
360	86	3	******	*****			
376	93	3	*****	****			
392	111	4 _	******	*****	***		
408	80	3	*****	***			
424	114	4	*****	****	***		
440	77	3	******	r W. W.			
456	73	3	*****	k Mr			
472	74	3	*****	***			
488	57	5	*****				
504	65	5	******				
520	56	5	*****				
536	40	1	*****				
552	26	1	*****				
568	18	1	****				
584	18	1	****				
600	6	0	**				
616	0	0					
632	1	0					

NO. OF SAMPLES OVER 640 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2719
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS=5N DEPTH 10M. START DATE 26/04/73

```
MEDIAN
     FREGINCY
                  40
                         80
                               120
                                      160
                                             200
(DEG.T) NO. PCT
  5
     106
  15
     118
           **********
 25
      94
         3
           ******
 35
      89
         3
           **********
 45
      80
         3
           *****
 55
      99
           *****
 65
      85
         3
           ******
 75
      81
         3
           ****
 85
      65
           *****
         2
 95
      51
         2
           ****
 105
     44
         2
           *****
 115
     48
         2
           *****
 125
     45
         2
           *****
 135
     57
         2
           ******
 145
     42
           *****
155
     37
           *****
         1
165
     51
           ******
         2
175
     73
         ፯
           ******
185
     82
         3
           ******
195
     111
           *******
205
     141
         5
           南京大京大京大京大京大京大京大京大京大京大京大京大京大京大京大京大京大
215
     117
           ******
225
     115
           *******
235
     79
         3
           *****
245
     65
         2
           *****
255
     80
         3
           ******
265
     80
         3
           *****
275
     54
         2
           ******
285
     60
         2
           ******
295
     57
         2
           ******
305
     55
         2
           *****
315
     70
         3
           ******
325
     67
         2
335
     77
         3
           *******
345
     73
        3
           ******
355
     71
        3
           *******
365
     0
        0
375
      0
        0
385
      0
        Ô
395
      0
        0
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2719
SAMPLE INTERVAL = 10 MINUTES

#### HISTOGRAM OF TEMPERATURE

## HOWE SOUND HS-5N DEPTH 10M. START DATE 26/04/73

```
FREGINCY
                      70
MEDIAN
                              140
                                       210
                                                085
                                                        350
(DEG.C) NO. PCT .
                                                         .
7.05
      0
            0
       19
7.15
            1
7,25
       289
              **********
           11
7,35
      177
           7
               *******
7.45
      125
            5
               ******
7.55
            5
              ******
      140
7.65
      108
            4
              *****
7,75
      108
            Δ
              ******
7,85
       91
            3
              ******
7,95
       94
            3
              ******
8,05
       97
            4
              *****
8,15
      113
            4
              ********
8,25
      166
            6
              ********
8,35
      120
            4
              **********
8,45
      115
            4
              *****
8,55
      141
            5
              ******
8.65
       99
            4
              ******
8.75
       98
            4
              *****
8,85
              ********
       110
8,95
            2
       56
9.05
            2
       66
              ****
9,15
       36
            1
9,25
       55
            2
              ****
9,35
            2
       66
9,45
       25
            1
              ****
9,55
       35
            1
              ****
9.65
       33
            1
              ****
9,75
       15
            1
9,85
       11
            0
              **
9,95
       17
            1
              **
10.05
       10
            0
              壶
10,15
       13
            0
              黄黄
10,25
       10
            0
              *
10,35
       10
            0
10.45
       5
            0
              *
10,55
       14
              **
            1
       14
10,65
              **
            1
10.75
        5
            0
              *
10.85
        8
            0
10,95
        0
            0
```

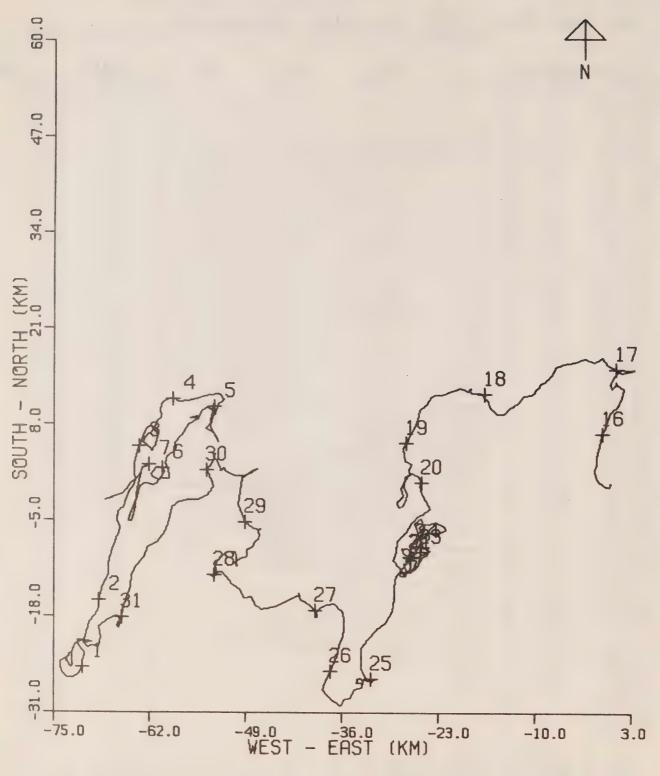
NO. OF SAMPLES OVER 11.00 = 5 NO. OF SAMPLES UNDER 7.00 = 0 TOTAL NO. OF OBSERVATIONS = 2719 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

## HOWE SOUND HS-5N DEPTH 10M. START DATE 26/04/73

```
MEDIAN
       FREGINCY
                       70
                              140
                                       210
                                               280
                                                        350
(PPT)
       NO. PCT .
23,19
         0
23.37
         2
            0
23,55
         6
            0
23.73
         7
            0
23,91
        10
            0
24.09
         9
            0
24.27
         3
            0
24.45
         6
            0
24.63
        12
            0
               * *
24.81
         9
            0
24.99
        6
            0
25.17
        1
            0
        12
25,35
            0
               * *
25,53
        10
            0
25,71
        14
            1
               黄黄
25,89
        15
            1
               **
26.07
       18
            1
26.25
        34
            1
26,43
        52
            2
26.61
       51
            2
               ****
26.79
       97
              *****
            4
26,97
       94
            3
              *******
27,15
       121
            4
              ******
27,33
       161
27,51
      245
            9
              *********
27,69
       221
              *******
            8
27.87
      197
            7
              *********
28.05
      166
              *******
            6
28,23
              *******
      176
            6
28,41
      168
              ******
            6
28.59
      112
              *****
            4
28,77
      122
              ******
28,95
      124
            5
              ******
29,13
      187
            7
              *******
29,31
      145
            5
              ********
29,49
       75
            3
              ******
29,67
       30
           1
              ***
29.85
        1
            0
30,03
        0
            0
30.21
        0
            0
```

NO. OF SAMPLES OVER 30.30 = 0
NO. OF SAMPLES UNDER 23.10 = 0
TOTAL NO. OF OBSERVATIONS = 2719
SAMPLE INTERVAL = 10 MINUTES
4 RELEASED.



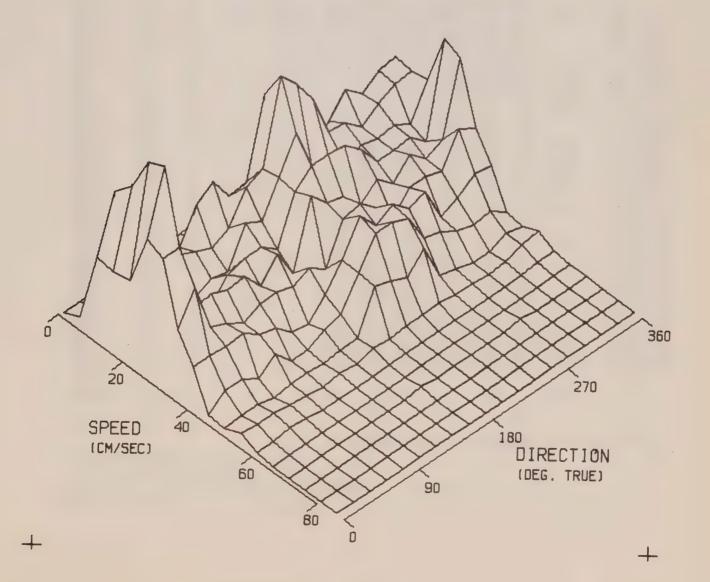
STN. NO. HS-5N DEPTH 10 M.

STARTING DATE: 15/ 5/73 ENDING DATE: 7/ 6/73

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# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N DEPTH 10 M. STARTING DATE: 15/5/73 NO. OF SAMPLES = 3337



STN. NO. HS-5N DEPTH 10 M.

STARTING DATE: 15/ 5/73 SAMPLE INTERVAL # 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

## SPEED

	000	080	160		320		480	560	640	720	800	880	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
0= 14		037	054	069	030	007	003	003					207
15- 29	001	075	086	079	043	012	005	005					203
30- 44		033	029	031	020	010	003	002					300
45= 59		023	020	024	019	011	001	001					128
60= 74	001	024	013	027	014	010	002	001					99
75= 89	001	026	008	018	012	013	UUE	001					92
90-104	003	018	013	028	017	003		001					79
105=119	003	024	011	013	011		001						82
120-134		031	009	055	011	003	001						65
135-149	005	025	030	027	011	005	001						77
150-164	005	020	024	015	015	008		001					103
165-179	004	032	036	020	013	017	010	001	001				88
180-194	004	040	043	050	019	050	010		0.0.1				133
195-209	001	069	061	035	029	041	010	0.01					186
210-224		060	036	042	031	035	009	Q U J					247
225-239	002	037	036	033	031	034	013						213
240-254		031	035	032	025	031	008						186
255-269	001	029	034	026	013	025	003						162
270-284		025	027	023	056	055	003						128
285-299	001	040	025	022	027	013	00.0		001				126
300=314		037	024	030	012	011			001				129
315=329	001	032	020	025	011	011	001						114
330-344	003		014	023	034	009	004						101
345-359	007	043	033	049	029	008	004	0.01					122
				, , ,	, /	SF 117 108	0 0 4	001					174
	43		721		503		88		2		0		3337
		846		763		358		13	_	0		0	2291

NO'. OF SPEEDS EXCEEDING 960 MM/SEC = 0

#### HISTOGRAM OF SPEED

## HOWE SOUND HS-5N DEPTH 10M. START DATE 15/05/73

```
MEDIAN
      FREGINCY
                     50
                                    150
                                            200
                            100
                                                    250
      NO. PCT
(MM/S)
   8
        0
  24
        1
           0
  40
        3
           n
       15
  56
           0
       24
  72
             ***
  88
      138
             ***********
 104
      177
           5
 120
      204
           6
             *********
      185
 136
             ***********
           6
             *******
 152
      142
 168
      161
           5
             *********
 184
      135
             ********
     .161
           5
 200
 216
      143
 232
           5
             **********
      162
 248
      114
           3
             ******
 264
      170
           5
 280
      160
           5
 296
      145
 312
      133
             *******
 328
      120
      129
 344
      107
 360
           3
 376
       83
 392
       87
           3
 408
       71
           2
       89
 424
           3
 440
       68
             *****
 456
       61
             ********
 472
       46
       85
 488
             ****
 504
       23
             ***
 520
       16
             ***
           0
       13
             ***
 536
           0
 552
       11
           0
 568
       4
           0
 584
        6
           0
 600
        0
           0
        0
 616
           0
 632
        0
```

NO. OF SAMPLES OVER 640 = 2
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 3337
SAMPLE INTERVAL = 10 MINUTES

#### HISTOGRAM OF DIRECTION

## HOWE SOUND HS-5N DEPTH 10M. START DATE 15/05/73

```
MEDIAN FREGINCY
               40
                               160
                     80
                          120
                                      200
(DEG.T) NO. PCT .
  5
    141
         ***********
 15
    177
        5 **************
 25
    200
        35
     80
        2 ************
     85
 45
        3 ***********
 55
     54
         ******
 65
        2
     66
         ******
 75
     52
        2
         ******
 85
     51
        2
         *****
 95
     64
        2
         *********
     38
 105
        1
         ****
 115
     43
        1
 125
     55
        2
         *****
 135
     60
        2
         *******
 145
     69
        2
         *********
 155
     58
        2
         ******
 165
     66
 175
    98
         ********
 185
    122
        4
         *********
195
    151
        5
         ************
205
    175
        5
         ***********
215
    132
         ********
225
    137
        4
         ********
235
        3
    116
         ********
245
    121
         *********
255
    8.6
        3
         ***********
265
     82
        2
         *******
275
     77
         ******
285
    94
        3
         *******
295
     80
        2
         ******
305
     75
        2
         ******
315
     67
        2
         ******
325
     83
        2
         *********
335
     82
345
    95
        3
         ********
355
    105
       3
         *******
365
     0
375
     0
       0
385
     0
395
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 3337
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

## HOWE SOUND HS-5N DEPTH 10M. START DATE 15/05/73

```
MEDIAN
       FREGINCY
                       100
                                 200
                                          300
                                                   400
                                                            500
(DEG.C) NO. PCT
 7.48
        13
             0
 7.64
        42
             1
                ***
 7,80
        24
             1
                * *
 7,96
        28
             1
 8.12
       165
             5
                *****
 8,28
       448
            13
 8.44
       496
                15
 8.60
       344
            10
                ******
 8.76
       307
            9
                *********
 8,92
       171
             5
                *****
 9,08
       123
             4
                *******
 9.24
       120
                ********
 9.40
       182
             5
 9,56
             5
       161
                *****
 9.72
             5
       171
                ******
 9.88
       161
             5
                ********
10.04
        77
             2
                *****
10,20
        60
             2
                *****
10.36
        51
             2
10,52
        36
             1
10,68
        30
             1
                **
         9
10.84
             0
11,00
        14
             0
11,16
        10
             0
11,32
         7
             0
               *
         5
11.48
             0
               娘
11,64
         6
             0
               婠
         8
11.80
             0
         7
11,96
             0
12,12
         2
             0
         5
12.28
             0
12,44
         1
             0
12.60
         2
             0
12.76
         3
             0
12,92
         3
             0
13.08
        15
             0
        12
13,24
            0
13.40
        12
             0
13,56
         9
             0
13,72
         0
            0
```

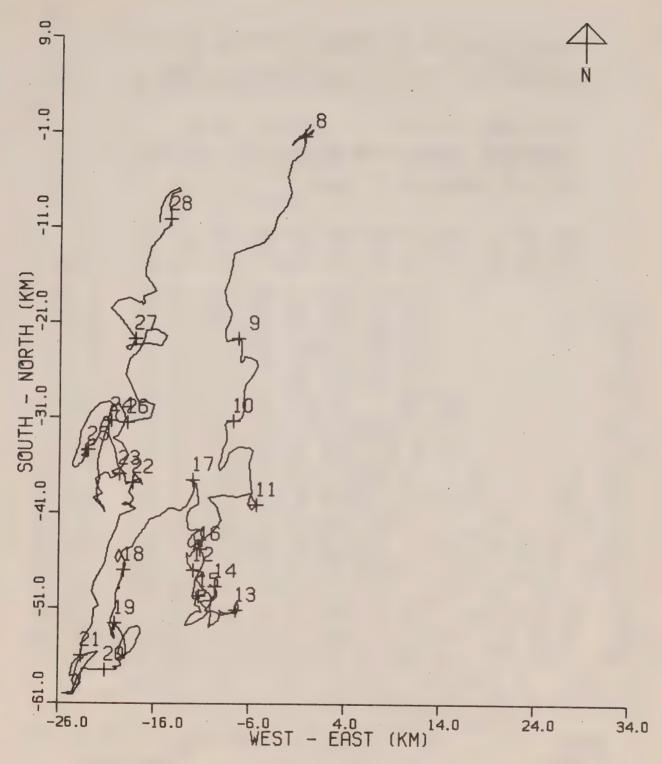
NO. OF SAMPLES OVER 13.80 = 0 NO. OF SAMPLES UNDER 7.40 = 0 TOTAL NO. OF OBSERVATIONS = 3337 SAMPLE INTERVAL = 10 MINUTES

HISTOGRAM OF SALINITY

## HOWE SOUND HS-5N DEPTH 10M, START DATE 15/05/73

MEDIAN (PPT) 18,64	NO.	0	•	110	\$50	330	440	550
18,92	0	0						
19,20	1	0						
19,48	4	0						
19.76	5	0						
20.04	1 6	0						
20,32	5	0						
20.60	5	0	*					
20.88	8	0						
21.16	8	0	*					
21,72	3	0	×					
55.00	1	0						
85.28	5	0			·			
22,56	14	0	sh .					
22.84	8	0	<b>n</b>					
23,12	11	0	*					
23,40	14	0	*					
23,68	10	0	*					
23,96	8	0	*					
24.24	4	0						
24.52	17	1	<b>未</b> ★					
24.80	24	1	**					
25.08	17	1	w w					
25,36	40	1	****					
25,64	95	3	****	***				
25,92	149	4	*****	*****				
26,20	136	4	****	****				
26.48	180	5	*****	*****				
26.76	235	7	*****	******	****			
27.04	277	8	*****	*****	****	1		
27.32	357	1.1	****	******	*****	****		
27,60	283	8	****	*****	*****	*		
27.88	522	16	****	******	*****	*****	****	****
28,16	514	15	*****	*****	*****	******	****	****
28.44	249	7	****	*****	****			
28,72	71	5	****					
29.00	41	1	***					
29.28	6	0	*					
29,56	0	0						

NO. OF SAMPLES OVER 29.70 = 0
NO. OF SAMPLES UNDER 18.50 = 0
TOTAL NO. OF OBSERVATIONS = 3337
SAMPLE INTERVAL = 10 MINUTES
ELEASED.

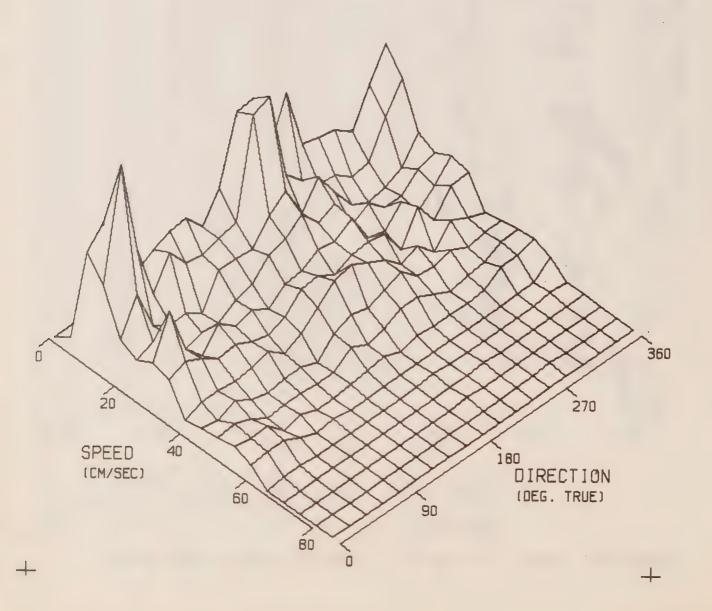


STN. NO. HS-5N DEPTH 10 M.

STARTING DATE: 7/ 6/73 ENDING DATE: 28/ 6/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N DEPTH 10 M. STARTING DATE: 7/6/73
NO. OF SAMPLES = 2994



STN. NO. HS-5N DEPTH 10 M.

STARTING DATE: 7/ 6/73 SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

## SPEED

DIR	000 TO 079	080 TO 159	160 TO 239	240 TO 319	320 TO 399	400 TO 479	480 TO 559	560 TO 639	640 TO 719	720 TO 799	800 TO 879	880 TO 959	
0= 14 15= 29 30= 44 45= 59 60= 74 75= 89 90=104 105=119	007 007 002 004 002 006 004	058 100 048 035 031 042 034	036 045 026 015 013 019 006 017	022 033 027 006 012 014 015 008	018 027 020 011 009 020 012 006	008 010 006 007 007 005 007	012 011 008 005 001 002 002	005 009 010 003 001 001	719	744	879	424	166 242 147 86 76 109 81 69
120=134 135=149 150=164 165=179 180=194 195=209 210=224 225=239 240=254	004 005 007 009 016 013 011	037 030 050 067 099 083 050 045 054	029 021 026 025 048 040 020 028 030	014 010 017 028 028 035 028 027	012 011 018 017 022 020 023 020	005 002 010 015 015 017 017 019 012	001 007 006 003 004 005 009		001	001		001	102 80 115 167 233 213 154 161 155
255=269 270=284 285=299 300=314 315=329 330=344 345=359	005 009 006 008 010	030 028 025 021 021 040 058	019 009 007 005 007 012 018	010 011 015 013 009 014	019 009 011 015 011 017 014	011 008 007 009 007 008 011	004 002 001 007 005 011 009	001			001		98 77 72 78 71 113 129
	167 1	100	521	435	383	225	120	38	2	1	1	1	2994

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 0

#### HISTOGRAM OF SPEED

## HOWE SOUND HS = 5N DEPTH 10M. START DATE 07/06/73

```
MEDIAN
     FREGINCY
                  70
                        140
                                210
                                        280
                                               350
(MM/S) NO. PCT .
  8
       1
          0
  24
       0
          0
  40
      8
         0
  56
     56
          2
            ****
 72
     102
          3
           ********
  88
     215
            ********
     223
 104
            *********
 120
     268
          9
            *************
    215
 136
          7
            ********
 152
     179
            ********
         6
 168
     132
         4
            *******
 184
     130
         41
            **********
 200
     100
          3
            *********
 216
     89
         3
            *****
     95
 232
         3
            ********
      69
 248
         2
            *****
 264
     79
         3
            *****
 280
     88
         3
            ********
 296
      85
         3
            *****
 312
     89
         3
            ********
 328
   109
            ******
 344
     72
         2
 360
     81
         3 ********
 376
      71
         2
            *****
 392
     61
         5
           *****
 408
      42
         - 1
            *****
 424
    48
         2
 440
     43
            ****
 456
      39
         1
            ****
 472
     42
         1
           ****
      25
 488
         1
            ****
 504
     26
         1
 520
     31
            ****
         1
 536
     5.0
         1
            ***
 552
      2.2
         1
           ***
 568
      7
         0
584
     12
         0 **
600
     10
         0
 616
      2
         0
      3
632
         0
```

NO. OF SAMPLES OVER 640 = 5
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2994
SAMPLE INTERVAL = 10 MINUTES

#### HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 10M. START DATE 07/06/73

```
MEDIAN
     FREGINCY
                  40
                         80
                               120
                                      160
                                             200
(DEG.T) NO. PCT .
  5
     118
  15
     156
         5
  25
     146
           **********
  35
     107
           ********
  45
      71
  55
      48
           ********
  65
      52
         5
           ********
  75
      55
         2
           *********
  85
      77
         3
           ******
 95
      55
 105
      51
         2
           *******
 115
      46
         2
           *******
      72
 125
           *******
 135
      61
         2
           *****
 145
      51
 155
      77
         3
           *******
      93
 165
         3
 175
     118
           **********
 185
     156
         5
           ************
 195
     148
         5
           *********
 205
     140
            **********
 215
     108
           ********
     92
         3
 225
           ********
 235
     118
 245
     111
           **********
 255
     77
      52
 265
         2
           *********
 275
      54
         2
           *********
      55
 285
         2
           *********
 295
      45
         2
      55
 305
 315
      39
           *****
 325
      56
         2
           ********
 335
      68
         2
           *********
 345
      82
         3
           ******
 355
      84
         3
            ******
       0
 365
         0
 375
       0
         0
      0
 385
         0
 395
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2994
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 10M. START DATE 07/06/73

```
MEDIAN FREGINCY
                 50
                       100
                              150
                                     200
                                            250
            (DEG.C) NO. PCT .
                               .
                                      .
                                            .
8.04
     0 0
8.12
      - 1
         0
8.20
     6
8.28
     13
         0
          皮 安 ★
8.36
     8.2
         3
          *****
8.44
     164
         5 **************
8.52
    171
           **********
         6
8,60
    114
         4 ***********
         3 ********
8.68
     104
8.76
           *******
     82
         3
         6 ***********
8.84
     173
8.92
     96
         3
           *******
9.00
     151
         5
           *********
9.08
     112
           *******
         4
9,16
    113
           *******
9.24
     48
         2
          *****
9.32
     54
         2
           *****
9,40
     56
       2 ********
9.48
           *******
     123
         4
9,56
     62
           *****
9.64
           ********
     140
         5
9.72
     100
         3
           ******
9.80
     200
         7
           **********
9.88
     128
           ********
9,96
     148
           ********
         5
     81
10.04
         3
           *****
     79
10,12
         3
           *****
10.20
      81
         3
           ********
10,28
      78
         3
           *********
      55
10.36
         2
         2
10.44
     45
          *****
10.52
      38
         1
           ***
10,60
      27
         1
           ***
10,68
      20
         1
           ***
10.76
     10
           食食
         0
10.84
      12
           黄黄
         0
10.92
      9
         0
           * *
11.00
      10
         0
           * *
11,08
      3
         0
11.16
      ()
         0
```

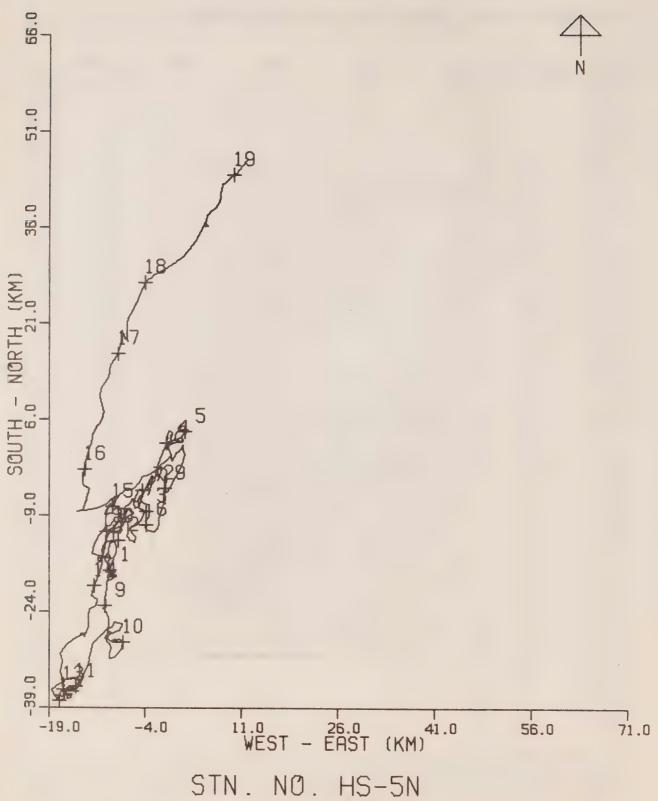
NO. OF SAMPLES OVER 11.20 = 5
NO. OF SAMPLES UNDER 8.00 = 0
TOTAL NO. OF OBSERVATIONS = 2994
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-5N DEPTH 10M. START DATE 07/06/73

```
MEDIAN
       FREGINCY
                      70
                              140
                                      210
                                               280
                                                       350
       NO. PCT
(PPT)
23.08
        0
            0
23.24
        3
            0
23.40
        1
            0
23,56
        0
            0
23.72
        1
            0
23.88
        3
            0
24.04
        4
            0
24.20
        6
            0
              雷
24.36
        8
              w
            0
       11
24.52
            0
              **
        9
24.68
            0
24.84
       11
            0
25.00
       10
            0
              委
25,16
       23
            1
       31
25,32
            1
25.48
       31
              ***
25.64
       44
            1
              ****
25.80
       52
            2
              *****
25,96
       72
            2
              *****
26,12
       74
              *****
26,28
              *******
       106
26.44
       78
            3
              ******
26.60
       93
            3
              ********
26.76
      116
            4
              *****
26,92
      152
            5
              *******
27.08
      171
              ********
            6
27.24
      137
            5
              **********
27.40
      150
            5
              **********
27.56
              *************
      169
            6
27.72
              *********
      170
            6
              *******
27.88
      216
            7
28.04
            7
      197
              ********
28,20
      206
            7
28,36
      139
            5
              ******
28,52
      198
            7
              ******
      235
              **********
28,68
            8
28,84
       42
           1
       19
29,00
              ***
           1
29.16
        0
            0
29.32
        0
            0
```

NO. OF SAMPLES OVER 29.40 = 0
NO. OF SAMPLES UNDER 23.00 = 6
TOTAL NO. OF OBSERVATIONS = 2994
SAMPLE INTERVAL = 10 MINUTES

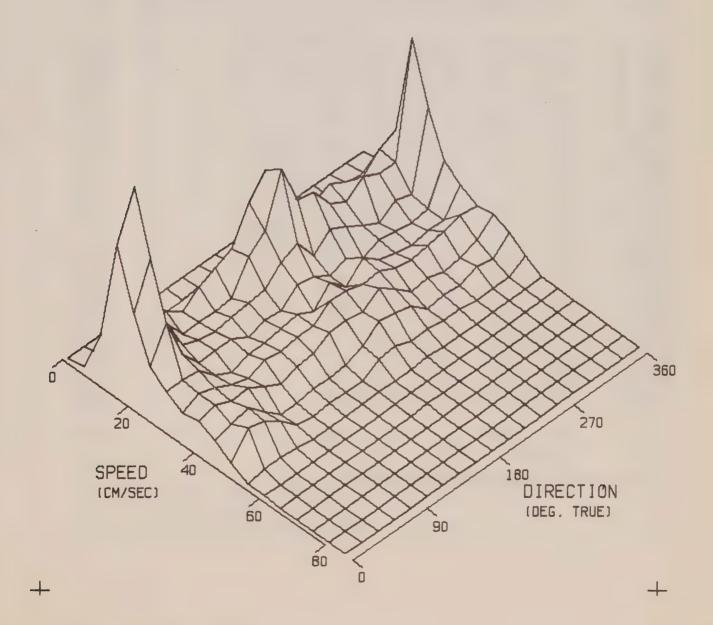


DEPTH 10 M.

STARTING DATE: 28/ 6/73 ENDING DATE: 19/ 7/73

FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N DEPTH 10 M. STARTING DATE: 28/6/73
NO. OF SAMPLES = 3000



STN. NO. HS-5N DEPTH 10 M.

STARTING DATE:28/ 6/73 SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

## SPEED

	000	080 TO	160 TO	240 TD	320 TO	400 TO	480 TO	560 TO	640 TO	720 TO	800 TO	880 TO	
DIR	079	159	239	319			559	639		799	879		
0.45	017	101	674	.3 4 7	3//	14 1 1	.) .) /	037	147	, , ,	077	737	
0= 14	003	101	093	045	150	016	008	002					289
15= 29	001	112	121	046	027	030	150						358
30- 44	001	074	049	026	022	850	017	001					218
45- 59		041	031	019	024	020	013						148
60- 74	002	022	013	012	015	013	007						84
75= 89	001	016	015	008	013	002	002						57
90-104	003	011	009	019	012	003							57
105-119	001	016	008	007	014	004	001						51
120-134	001	015	020	013	013	006							68
135-149	001	019	011	015	018	008							72
150=164	004	026	014	015	055	008							89
165=179	003	059	950	015	017	009	003						132
180=194	006	069	034	014	025	016	005		001				170
195=209	002	087	037	056	024	055	005						203
210-224	005	078	016	012	031	050	005						164
225=239	005	056	025	013	018	015	004						136
240-254	001	031	021	026	055	009	002						112
255-269	005	059	055	009	019	003	005						83
270-284	001	027	015	012	013	006	005						76
285=299	004	031	015	008	012	005							75
300-314	001	025	015	009	015	003							68
315-329	003	021	019	011	014	009	001						78
330-344	001	021	010	009	016	011							68
345=359		055	043	015	018	012	001						144
	52		685		445		96		1		0		3000
	1	039		404		278		3		0		0	

NO' OF SPEEDS EXCEFDING 960 MM/SEC = 0

## HISTOGRAM OF SPEED

HOWE SOUND HS-5N DEPTH 10M. START DATE 28/06/73

```
MEDTAN
      FREGINCY
                      60
                              120
                                      180
                                               240
                                                       300
(MM/S)
      NO. PCT
   8
        0
           0
  24
        3
            0
  40
           0
        7
  56
  72
       41
  88
      113
           4
 104
      227
              **********
 120
      232
              **********
 136
      256
              **********
 152
      211
           7
              ***********
 168
      181
 184
      150
           5
              *********
 200
      130
           4
 216
      144
           5
 232
       95
           3
              *********
 248
       83
           3
              ********
 264
       77
 280
       68
           2
              ******
       73
 296
           2
 312
       85
              ********
      113
 328
 344
       90
           3
 360
       90
           3
              *****
 376
       88
           3
              ********
 392
       77
       54
 408
 424
       63
 440
       48
       57
 456
              *****
 472
       43
 488
       38
 504
       32
 520
       19
              * * +
           1
        7
 536
           0
 552
        0
           0
 568
        2
           0
 584
        1
           0
 600
 616
        0
 632
        0
```

NO. OF SAMPLES OVER 640 = 1 NO. OF SAMPLES UNDER 0 = 0 TOTAL NO. OF OBSERVATIONS = 3000 SAMPLE INTERVAL = 10 MINUTES

#### HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 10M, START DATE 28/06/73

```
MEDIAN
     FREDINCY
                    50
                           100
                                   150
                                           200
                                                   250
(PEG.T) NO. PCT .
  5
          7
      214
  15
      212
           7
  25
      244
            **********************************
      139
  35
          5
             ********
  115
      126
  55
      86
          3
             ******
  65
      57
         2
             ******
  75
      45
         2
  85
      37
  95
      37
 105
      34
           1
 115
      36
          1
      43
 125
          1
 135
      54
             ******
           7
 145
      4.1
          1
 155
      53
           2
             *****
       79
 165
           3
             *****
      95
 175
           3
             ******
 185
      106
          71
             ********
 195
      145
          E;
             ******
 205
      126
          41
             ******
 215
      120
          4
             *********
      79
 225
          3
             ******
 235
      97
           3
             ******
      85
 245
 255
      48
           2
 265
      60
             *******
 275
      57
           2.
      118
 285
          7
 295
      44
          1
 305
      46
 315
      47
      52
 325
 335
      46
           2
 345
      65
 355
      OA
             **********
 365
 375
       0
          0
 3A5
      0
          0
 395
       \cap
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

## HOWE SOUND HS-5% DEPTH 10M. START DATE 28/06/73

```
MEDIAN
     FREDINCY
                   50
                         100
                                150
                                        200
                                               250
(DEG.C) NO. PCT .
8.85
      0
8,95
      30
          1
            ****
9.05
      70
          2
            *******
9.15
      77
            ******
9.25
     95
          3
            *******
9,35
     164
          5
            **********
9,45
     114
          4
            *******
9.55
     130
            *******
          14
9,65
     195
            **********
          7
9.75
     178
          6
            ***********
9.85
     181
            ********
          6
9,95
     234
          8
            ************
10.05
     181
            *********
          6
10.15
     142
          5
            ********
10.25
     161
          5
            **********
10.35
     105
          4
            *******
10.45
     112
          4
            ********
10.55
     139
          5
            **************
10.65
      93
          3
            ******
10.75
      53
          2
            *******
10.85
      41
            *****
          1
10.95
      47
          2
11,05
      60
          2
            *****
11,15
      68
            ******
11.25
      42
          1
            ****
11.35
      50
          2
            ******
11,45
      65
          2
            *****
11.55
      41
            *****
11,65
      26
          1
            ****
11.75
      24
          1
            ****
      33
11.85
          1
            ****
11.95
      14
12.05
      2/1
          1
            ****
12,15
      9
          0
12.25
      - 1
12.35
          0
       1
12.45
       0
12.55
       0
12,65
       0
12.75
       0
```

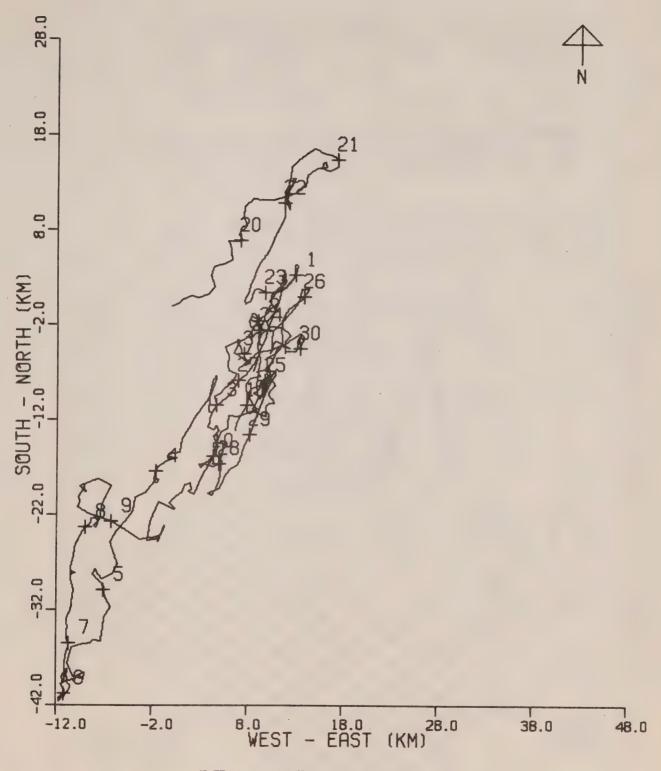
NO. OF SAMPLES OVER 12.80 = 0 NO. OF SAMPLES UNDER 8.80 = 0 TOTAL NO. OF OBSERVATIONS = 3000 SAMPLE INTERVAL = 10 MINUTES

HISTOGRAM OF SALINITY

HOWE SOUND HS-5N DEPTH 10M. START DATE 28/06/73

```
350
                                          085
                                  210
                   70
                          140
MEDTAN
      FREDINCY
(PPT)
     NO. PCT .
                                                  .
20.51
      ()
       2
20.73
          0
20.95
          ()
21.17
       1
       0
21.39
21.61
       0
21.83
       2
22.05
       3
          0
22.27
       1
          0
22.49
       1
          0
22.71
       3
          n
25.03
       1
          \cap
       3
23,15
          0:
       5
23.37
          0
       5
23,59
          0
23. RI
       4
          Λ
       6
          0
24.03
24.25
       21
          1
24.47
      27
          1
24.69
      46
          2
      34
24.91
          1
25.13
      47
          7
             *****
25,35
       29
          1
25.57
      46
          2
25.79
             ******
      101
          3
     127
             *********
          4
26.01
26.23
      93
          3
             *****
26.45
     110
          4.
          7
             *********
26.67
      208
             ***********
26.89
      324
          11
             **********
      281
          9
27.11
             ************
      296
27.33
          1.0
             ***********
27,55
      1280
          9
      155
             **********
27.77
          В
             ********
27,99
      244
          8
28,21
      238
             **********
          В
28.43
      106
          4
             ********
28.65
      68
          2
             *****
28.87
       - 8
          0
       0
29.09
          ()
```

NO. OF SAMPLES OVER 29.20 = 0 NO. OF SAMPLES UNDER 20.40 = 0 TOTAL NO. OF OBSERVATIONS = 3000 SAMPLE INTERVAL = 10 MINUTES

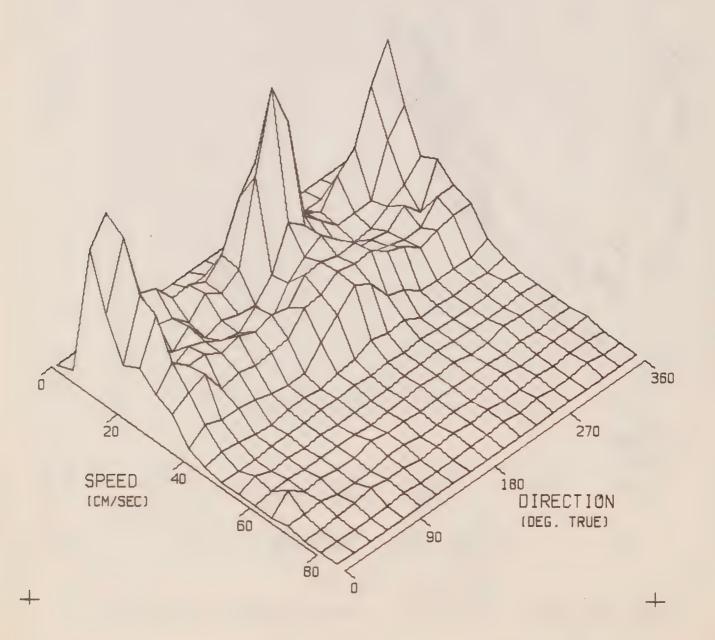


STN. NO. HS-5N DEPTH 10 M.

STARTING DATE: 19/ 7/73 ENDING DATE: 11/ 8/73

FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N DEPTH 10 M. STARTING DATE: 19/ 7/73 NO. OF SAMPLES = 3297



STN. NO. HS=5N DEPTH 10 M.

STARTING DATF: 19/ 7/73 SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

## SPEED

	000	080	160	240	320	400	480	560	640	720	800	880	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR.	079	159	239	319	399	479	559	639	719	799	879	959	
0= 14	005	091							005				214
15= 29	008	115	079	054	026	006	002	006	007				303
30= 44	013	076	037	028	030	004		001	003			003	195
45- 59	005	048	027	021	017	004		001	003	005			128
60- 74	011	027	025	034	022	002	003	003	005	001			130
75- 89	008	030	026	024	012	001		001					106
90-104	005	024	012	024	014		001	001	001			001	83
105-119	003	025	017	024	021	005		003	002	004			104
120-134	003	017	013	022	005					001			67
135-149	006	015	014	026	015	001	0.01		002	001			81
150-164	005	025	010	014	029	004	001		001	001			90
165-179		044		018	026	009	002	002	001	002			124
180-194	002	096		043				003	001	002			234
195=209	003	110	059	035	041	015	003	001		001			268
210-224	002	104	044	040	039	017	001	001	001	001			250
225-239	500	045	030	032	034	011	002		001	005	001	001	
240-254	004	024	026	029	031	008		004					129
255=269	005	015	009	020	019	004	001		0.05	005			74
270-284	001	007	008	016	021	001	002						56
285=299	002	023	007	014	014	001		001		001			63
300-314	003	012		019	012	001		002	001				58
315-329	004	031		020	013	002		002	0.01	005	0.01		87
330=344	013	037	015	019	017		002		001				104
345+359	011		029	028	012	001		003	001	001			172
2427237	7 4 4												
	126		610		530		23		37		. 5		3281
	2 00. 17	1127	0 1 17	643		114		36		58		5	

NO' OF SPEEDS EXCEEDING 960 MM/SEC = 16

HISTOGRAM OF SPEED

#### HOWE SOUND HS-5N DEPTH 10M. START DATE 19/07/73

```
FREGINCY
                    90
MEDIAN
                            180
                                    270
                                            360
                                                    450
      NO. PCT .
(MM/S)
       0
          0
  10
  30
       3
           0
      34
  50
          - 1
            ***
      89
  70
          3
            *****
  90
      264
          - 8
            *********
      324
            **********
 110
          1.0
 130
     336
         10
             *********
 150
     203
          - 6
            *******
 170
     221
             **********
 190
     145
             *********
      123
 210
           4
             *****
 230
     146
           4
             *******
 250
      121
           4
             *******
           5
 270
      151
             ******
 290
     179
           5
             ******
 310
      167
           5
             ******
      179
           5
 330
             **********
 350
      172
           5
             ******
      120
 370
           4
             ********
           2
 390
      68
             *****
      44
 410
             ****
 430
      32
             ***
          1
 450
       20
           1
             * *
       9
 470
           0
 490
           0
 510
       6
           0
 530
       6
           0
       5
 550
           0
 570
       4
           0
 590
       10
           0
       -8
 610
           0
      12
 630
           0
 650
      14
           0
            * *
 670
       10
          0
             *
 690
       7
           0
 710
       6
           0
 730
       13
           0
 750
       6
           0
 770
       4
           0
 790
       5
           0
```

NO. OF SAMPLES OVER 800 = 23 NO. OF SAMPLES UNDER 0 = 0 TOTAL NO. OF OBSERVATIONS = 3297 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 10M, START DATE 19/07/73

```
FREGINCY
MEDIAN
                  50
                        100
                              150
                                   200
                                            250
(DEG.T) NO. PCT
  5
     151
         5
  15
     180
           **********
  25
     216
           ***********
  35
     130
           ******
  45
     108
         3
           *********
  55
     71
           ******
  65
      88
           *******
 75
      87
           ******
         3
      70
 85
 95
      50
           *****
 105
      58
           ********
 115
      70
           *******
 125
     45
           *****
 135
     48
         1
     57
 145
           ******
         2
 155
     59
           *******
 165
     69
 175
     93
           **********
 185
     153
         5
           ********
 195
     178
           *********
 205
     180
           *********
 215
     168
         5
           **********
 225
     141
           *********
 235
     90
         3
           *****
 245
     88
         3
 255
     66
           ******
 265
     47
         1
           ******
 275
     35
         1
 285
     40
         1
           ****
 295
     43
         1
           ****
 305
     35
         1
 315
     52
         2
           ******
 325
     58
           *******
 335
     68
           ******
 345
     115
         3
           ******
355
     90
         3
           ******
 365
      0
         0
375
      0
         0
385
      0
         ()
395
      0
         0
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 3297
SAMPLE INTERVAL = 10 MINUTES

#### HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 10M, START DATE 19/07/73

```
200
                                          250
                 50
                      100
                             150
     FREGINCY
MEDIAN
(DEG.C) NO. PCT .
9.46
      0
         0
      0
         0
9.58
9.70
     5 0
9.82
     21
       1
9.94
     10
        0
           **
     39
        - 1
           *****
10,06
           ******
10.18
     48
        - 1
10.30
    115
        3
           ******
           ********
         5
    174
10,42
           *******
10.54
    112
        3
10.66
    137
           *********
        4
           *******
    127
         4
10.78
           ***********
10,90
    196
         6
           ************
         7
11.02
     223
    137
        4
           ******
11.14
           *********
11,26
    159
         5
           ******
         5
11.38
    167
11,50
           *********
         5
    167
           5
11.62
     162
11.74
    101
         3
           *********
11.86
     129
         4
           *********
11,98
           *******
    116
         4
           *****
12.10
         3
     86
           ********
12,22
     122
        4
12.34
           *******
    115
         3
12.46
    108
         3
           *******
12,58
     8.0
           *****
         5
12.70
         3 -
           ******
     88
12,82
           *****
     68
         2
12.94
     47
         1
           *****
13.06
     93
         3
           *****
13,18
     72
           大大会大大大大大大大大大
         2
13,30
     16
         0
           女女女
13.42
     15
           ***
         0
13.54
      50
        1
           改会会会
13.66
      8
         0
           黄黄
13.78
      13
         0
           女女女
      2
         0
13,90
14.02
      0
         ()
14.14
      0
         0
```

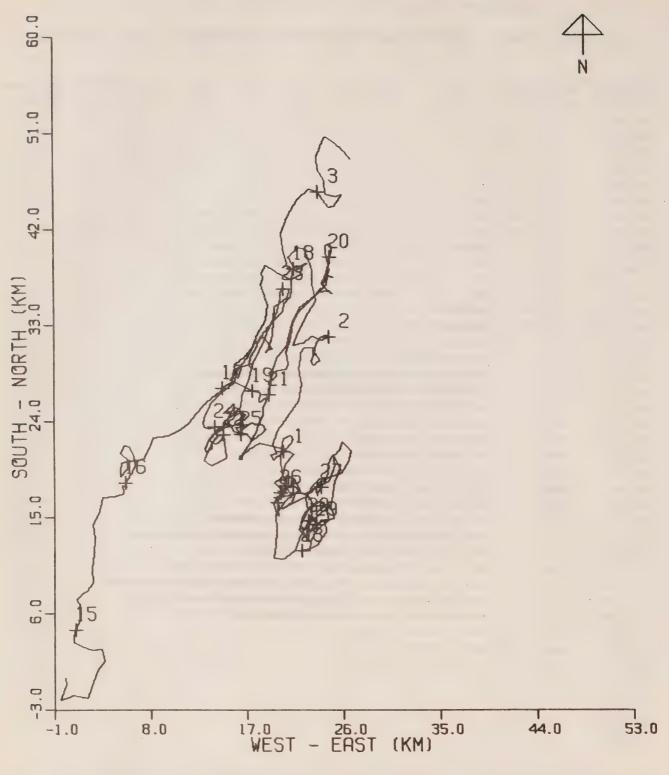
NO. OF SAMPLES OVER 14.20 = 2
NO. OF SAMPLES UNDER 9.40 = 0
TOTAL NO. OF OBSERVATIONS = 3297
SAMPLE INTERVAL = 10 MINUTES
ELEASED.

## HISTOGRAM OF SALINITY

HOWE SOUND HS-5N DEPTH 10M, START DATE 19/07/73

```
MEDIAN
      FREGINCY
                     70
                            140
                                    210
                                            280
                                                    350
(PPT)
      NO. PCT .
24.06
        0
           0
24.18
        1
           0
24.30
        5
           0
24.42
           0
24.54
24.66
        8
           0
24.78
       10
           0
24.90
       1.1
           0
25.02
       25
              ***
25,14
       17
           1
25,26
       - 8
           0
25,38
       12
           0
25.50
       27
25,62
       32
           1
25.74
       35
           1
25,86
       88
           3
25,98
      210
             *********
26.10
      147
             *******
       99
56.55
           3
             *******
26.34
      94
           3
             *****
26.46
      106
           3
             ******
26.58
      95
           3
             *******
26.70
      132
           4
             ******
26.82
      146
           4
             *******
26,94
      156
           5
             ******
27.06
      202
27.18
      262
           8
             ********
27,30
      183
             *********
           6
27.42
      234
           7
             **********
27.54
      278
             ***********
           8
27.66
      263
           8
             **********
27,78
      184
             *******
           6
27,90
      112
           3
             ********
28.02
       66
           2
28.14
       34
           1
             ****
28.26
       5
           0
28,38
       3
           0
28.50
        0
           0
        0
28.62
           0
28.74
        0
           0
```

NO. OF SAMPLES OVER 28.80 = 0
NO. OF SAMPLES UNDER 24.00 = 2
TOTAL NO. OF OBSERVATIONS = 3297
SAMPLE INTERVAL = 10 MINUTES



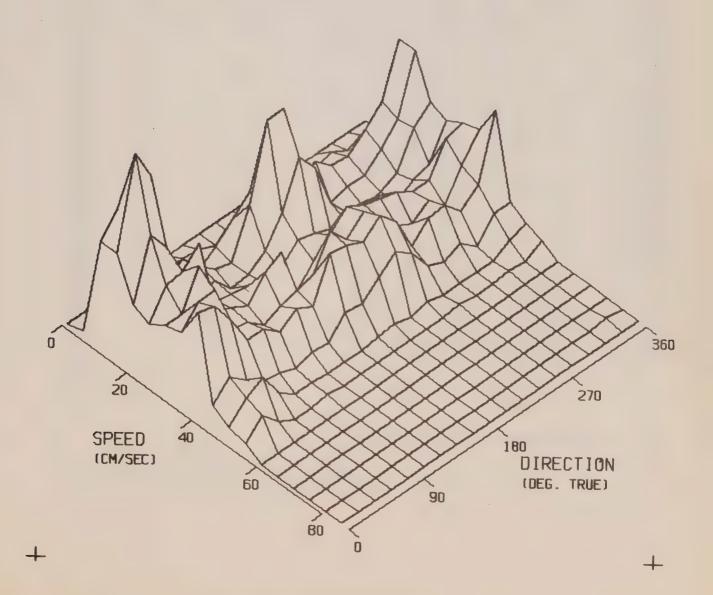
STN. NO. HS-5N DEPTH 10 M.

STARTING DATE: 14/8/73 ENDING DATE: 3/9/73

+

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N DEPTH 10 M. STARTING DATE: 14/8/73
NO. OF SAMPLES = 2905



STN. NO. HS-5N DEPTH 10 M.

STARTING DATE: 14/ 8/73 SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

## SPEED

	000	080 TO	160 TO	240 TO	320 TO	400 TO	480 TO	560	640 TO	720 TO	800 TO	880 TO	
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
0-14	004	068	044	026	042	024	008	004					550
15= 29	006	077	076	034	046	950	015	003					283
30= 44	004	072	055	053	047	021	020						272
45= 59	001	048	028	040	029	009	004						159
60- 74		014	024	036	055	014	003						113
75= 89		013	013	023	017	013							79
90-104	0.02	150	023	013	014	007	0.01						81
105-119	003	011	009	019	022	0.06	0.01						71
120-134	004	013	008	019	019	005							68
135-149	002	008	008	023	015	009							65
150-164		025	014	013	056	016							94
165=179		035	021	011	058	054							119
180-194	001	043	0.45	019	033	017	0.05						160
195-209	001	060	046	018	059	051	001						173
210-224	005	035	035	056	033	958							156
225=239	003	013	018	055	029	037							93
240-254	005	013	015	021	018	021							68
255=269	005	012	005	055	021	005	001						66
270-284	003	010	006	023	015	009							62
285-299	001	011	006	013	019	012							56
300-314	006	013		011	010	013	0.04						60
315-329	001	011	015							001			94
330-344	0.05	019		015	023		004	'		001	•		171
345=359	007	033	059	038	042	055							* 7 1
	60		567		609		61		C	)	(	)	2905
		675		553		372		7	7	1		(	)

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 0

#### HISTOGRAM OF SPEED

HOWE SOUND HS-5N DEPTH 10M. START DATE 14/08/73

```
MEDIAN
    FREGINCY
                40
                      80
                        120
                                  160
                                        200
    NO. PCT .
(MM/S)
  8
      0
        0
 24
      0
        0
 40
     5
        0
     19
 56
        1
 72
     36
          *****
 .88
     85
        3
          *********
 104
    134
          **********
 120
    148
        5
          *********
 136
    163
          *********
 152
    145
          ********
 168
    146
        5
          *********
 184
    136
        5
          ********
 200
    108
          ********
 216
     94
        3
          ********
 232
    112
          ********
 248
     7.7
        3
          *******
 264
     84
        3
          *******
 280
    117
          ********
          *********
 296
    127
 312
    119
          *********
 328
    130
          *********
 344
    107
          ********
 360
    141
        5
 376
    118
          ********
    153
 392
        5
          *******
     79
 408
        3
          *******
 424
    101
        3
          *********
     70
 440
        2
          *********
 456
     51
          ********
 472
     33
        1
          *****
     21
 488
          ***
 504
     14
        0
          ****
 520
     13
        0
          * * +
 536
     8
          * *
        0
     5
 552
        0
      7
 568
        0
          **
 584
     0
        0
 600
      0
        0
 616
      0
        0
 632
        0
```

NO. OF SAMPLES OVER 640 = 2
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2908
SAMPLE INTERVAL = 10 MINUTES

#### HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 10M, START DATE 14/08/73

```
FREGINCY
                  50
                        1.00
                               150
                                      0.05
                                              250
MEDIAN
(DEG.T) NO. PCT
                 .
                                       .
  5
     154
           **********
  15
     184
         6
  25
     187
           **************
         6
  35
     190
            **********
  45
     138
         5
            *******
  55
      96
         3
            ******
  65
      75
         3
  75
      50
         2
  85
      59
         2
            *****
  95
      55
            *****
 105
      43
            ****
      54
 115
            *****
      37
 125
         1
 135
      53
         2
            *****
 145
      40
         1
 155
      66
            *****
 165
      60
            *******
      98
 175
         3
            ******
 185
     104
         4
            ******
 195
     112
            *******
 205
     117
 215
     106
            ******
         4
 225
      92
         3
           ******
 235
      77
         3
           ********
            *****
 245
      64
      46
 255
 265
      45
            *****
 275
      46
            ******
 285
      36
         1
 295
      44
            *****
      39
 305
 315
      32
            ****
 325
      48
            *****
 335
      64
         2
           *******
 345
      91
            *******
         3
     106
 355
 365
      ()
         0
 375
      0
         0
 385
      ()
         0
 395
```

NO. OF SAMPLES OVER 400 = 0 NO. OF SAMPLES UNDER 0 = 0 TOTAL NO. OF OBSERVATIONS = 2908 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS=5N DEPTH 10M. START DATE 14/08/73

```
MEDIAN
       FREGINCY
                       8.0
                                        240
                                                 320
                               160
                                                          400
(DEG.C) NO. PCT .
9.77
        6
            0
9,91
        16
            1
       28
10.05
            1
10,19
       87
            3
               *****
10.33
       114
            4
               *****
10.47
       101
            3
               ******
10,61
       855
            8
               *********
10.75
       282
           10
               ********
10.89
       279
               *********
           10
       278
11,03
           10
               *******
11.17
       200
            7
               ********
11,31
       154
            5
               *******
11.45
       126
            4
               *****
11,59
       128
            4
               *********
11.73
       110
            4
               ********
11,87
       99
            3
12.01
        84
            3
               *******
12,15
        66
            2
               ****
12,29
        85
            3
12,43
        52
            2
               ****
12,57
        33
            1
12,71
        34
            1
               ***
12,85
        22
            1
12,99
        15
            1
               ***
13,13
        17
               **
            1
13.27
        35
            1
               ***
13.41
        29
            1
13,55
        27
            1
               **
13,69
        25
            1
13,83
        27
            1
               ***
13.97
        26
            1
14.11
        26
            1
14.25
       12
               **
            0
14,39
        20
            1
               **
14.53
        6
            0
14,67
         2
            0
         2
14,81
            0
14.95
         3
            0
15.09
         4
            0
15.23
            0
```

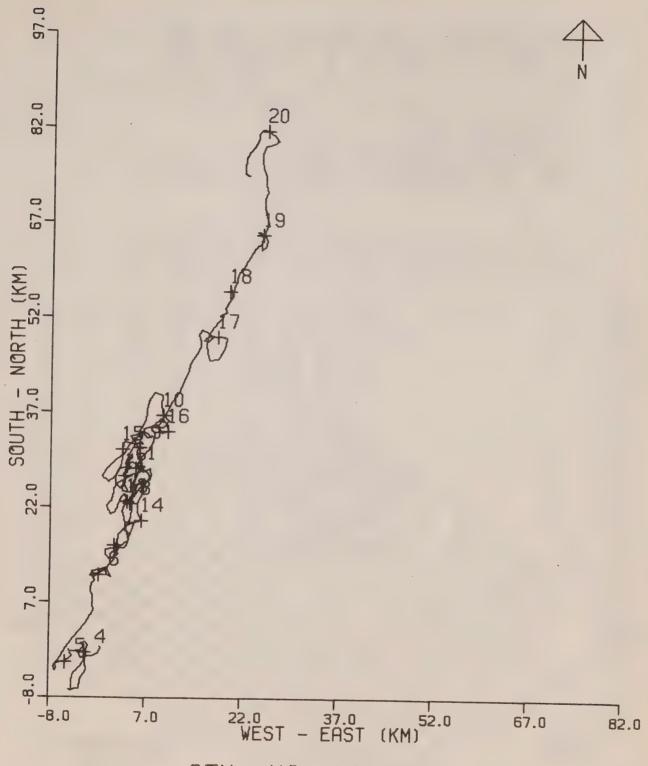
NO. OF SAMPLES OVER 15.30 = 10 NO. OF SAMPLES UNDER 9.70 = 0 TOTAL NO. OF OBSERVATIONS = 2908 SAMPLE INTERVAL = 10 MINUTES

#### HISTOGRAM OF SALINITY

HOWE SOUND HS-5N DEPTH 10M. START DATE 14/08/73

```
MEDTAN
       FREGINCY
                        80
                                160
                                         240
                                                  320
                                                           400
(PPT)
       NO. PCT
23.47
        - 6
             0
23,61
         4
             0
23.75
        11
             0
23,89
        16
             1
24.03
        - 8
             0
24.17
        13
             0
               * *
24.31
        12
             0
               * *
24.45
        9
             0
24,59
        11
             0
24,73
        15
             1
               **
24,87
        21
             1
               * * *
25.01
        18
            1
               * *
25,15
        18
            1
25,29
        15
25,43
        28
               ***
25,57
        27
               ***
             1
25.71
        16
            1
25,85
        17
            1
25,99
        26
               ***
26,13
        27
            1
               * * *
26.27
        50
            2
               ****
26.41
        72
            2
               *****
26.55
        60
            2
               *****
26.69
        63
            2
               *****
26.83
        98
            3
               ******
26,97
       107
               *****
27.11
       78
            3
               ******
27.25
               ******
       165
            6
27.39
       555
            8
               *******
27,53
       394
               ***********
           14
27.67
       259
            9
               ********
27,81
       371
               ************
           13
27.95
       238
           8
               *********
28.09
       144
            5
               ********
28,23
       131
            5
               ******
28.37
       92
            3
               *******
28.51
        19
            1
               * *
28,65
        3
            0
28,79
        0
            0
28,93
        0
            0
```

NO. OF SAMPLES OVER 29.00 = 0
NO. OF SAMPLES UNDER 23.40 = 24
TOTAL NO. OF OBSERVATIONS = 2908
SAMPLE INTERVAL = 10 MINUTES

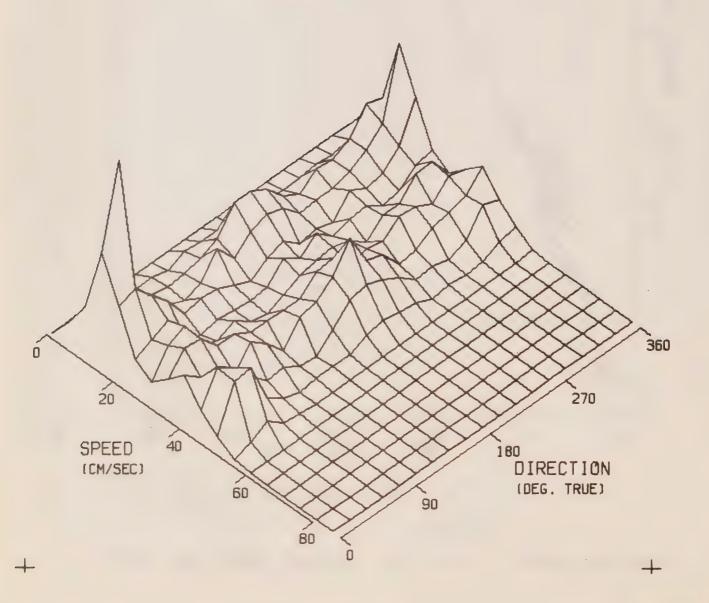


STN. NO. HS-5N DEPTH 10 M.

STARTING DATE: 3/ 9/73 ENDING DATE: 20/ 9/73

## FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N DEPTH 10 M. STARTING DATE: 3/9/73 NO. OF SAMPLES = 2426



STN. NO. HS-5N DEPTH 10 M.

STARTING DATE: 3/ 9/73 SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

## SPEED

	000	080	160	240	320	400	480	540	640	724	5 A A	900	
	TO	TO	TO	TO	TO		TO	TO	TO	70	800 TO	880	
DIR	079	159	239	319			559		719		879	TO	
		7 6		347	3 , ,	7/7	7 6. 6.	0.37	117	17.4	014	959	
0-14	009	054	055	016	029	026	012						201
15- 29	010	085	056	029	027	035	027						269
30- 44	004	041	044	028	035	022	030	001					205
45- 59	006	027	028	022	024	028	016	37 77 8					151
60= 74	004	013	014	010	008	007	006						. 62
75# 89	003	008	014	008	024	017							76
90-104	002	008	011	015	014	012	To the work						
105=119	004	004	016	010	012	500	0.01						62
120=134	004	011	008	006	010	001							40
135-149	005	150	009	005	020	006	0.01						67
150=164	002	014	003	004	014	012	001						49
165-179	006	017	012	014	019	055	500						92
180=194	003	035	011	016	029	027	004						
195-209	003	031	013	018	026	029	006						125
210+224		850	010	018	024	023	003						126
225-239	003	018	009	016	020		004						106
240-254	200	011	006	008	014	013	004						82
255=269		008	007	008	010	006							54
270-284	001	016	017	014	021	006							39
285-299	003	015	011	014	055	006	0.01						76
300-314	004	017	010	010	018	004							71
315+329	002	019	014	024	017	009						•	63
330=344	003	035	022	024	025	150	500						85
345=359	006	039			021	Mesolv and	200						132
		- //		17 W/ 17	5.7 West 187	** \$ J	A O L						144
	89		433		483		119		0		Ô		2/12/
		575		357		369	* * .	1	63	0	U	•	2426
						me the e		ă.		U		0	

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 0

#### HISTOGRAM OF SPEED

HOWE SOUND HS-5N DEPTH 10M. START DATE 03/09/73

```
150
    FREGINCY
                    60
                          90
                              120
MEDIAN
              30
(MM/S)
    NO. PCT .
 8
     0
       0
 24
       0
     17
       1
         ****
 40
 56
    42
         *******
     26
 72
         *****
 88
     74
       3
         *******
    117
 104
         *************
 120
    112
       5
         *********
    135
         ***********
 136
    137
 152
         *************
    101
         **********
 168
 184
    93
         **********
    92
 200
         *********
 216
    81
       3
         ******
 232
    80
        3
         *******
 248
     33
       1
         ******
 264
    67
       3
         *******
     78
 280
        3
         *******
 296
     91
        Д
         *********
 312
    74
        3
         *******
 328
    89
         *********
 344
    103
         **********
 360
    106
        4
         ********
 376
    117
       5
         ********
    93
 392
       4
         *******
     70
 408
        3
         *********
 424
    67
       3
     73
 440
        3
         *******
 456
     82
       3
         ********
 472
    52
        2
         ******
     53
 488
         *******
 504
     33
 520
     21
         ****
 536
     9
       0
         ***
     3
 552
       0
 568
     1
     0
 584
     0
 600
        0
 616
     0
        0
 632
```

NO' OF SAMPLES OVER 640 = 0 NO' OF SAMPLES UNDER 0 = 0 TOTAL NO OF OBSERVATIONS = 2426 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 10M. START DATE 03/09/73

```
MEDIAN
      FRERINCY
                    40
                            80
                                    120
                                            160
                                                    200
(DEG.T) NO. PCT
   5
      146
           6
  15
      155
           6
  25
      184
             ************
  35
      139
           6
             *********
  45
      114
           15
  55
      94
             *****
  65
       42
           2
             ******
  75
       46
           2
             *******
  85
       46
           2
             ********
  95
       45
             *******
 105
       36
 115
      31
           1
             ****
 125
       27
           1
             ****
 135
      40
           2
             *****
 145
       39
             *****
 155
      34
           1
 165
      48
           2
             *******
 175
      66
           3
             ******
 185
      85
             ******
 195
       74
           ኚ
             ******
 205
      94
             ********
 215
      68
           3
             *******
 225
      59
             ******
      57
 235
             ********
 245
      35
             *****
 255
      28
          1
 265
      30
           1
             *****
 275
      43
           2
             ******
 285
      52
           2
 295
      49
           2
             ******
 305
      39
          2
 315
      49
          2
             ********
 325
      64
          3
             ******
 335
      89
 345
      90
          4
             *******
 355
      89
          4
             ********
 365
       0
          0
 375
       0
          0
 385
       Ô
          0
 395
       0
          0
```

NO' OF SAMPLES OVER 400 = 0
NO OF SAMPLES UNDER 0 = 0
TOTAL NO OF OBSERVATIONS = 2426
SAMPLE INTERVAL = 10 MINUTES

#### HISTOGRAM OF TEMPERATURE

## HOWE SOUND HS-5N DEPTH 10M. START DATE 03/09/73

```
MEDTAN
      FREGINCY
                      60
                             120
                                      180
                                              240
                                                      300
(DEG.C) NO. PCT
 9,26
        0
           0
 9.38
        2
           0
 9,50
       11
           0
              **
 9,62
       28
           1
9.74
       51
           2
              ****
 9.86
       76
           3
              *****
 9,98
      108
           4
              *****
10,10
       90
           4
              *********
10,22
      163
           7
              **********
10,34
      195
           8
              ********
10,46
      191
           8
              *********
10.58
      258
              ********
           11
10,70
      183
           8
              ********
              ********
10.82
      170
           7
10,94
      113
           5
              *******
11,06
      122
           5
11,18
      113
           5
              *******
11,30
      128
           5
              *******
11.42
      101
              ******
11.54
       8.0
           3
              ******
11,66
       63
           3
              *****
11.78
       39
           2
              ****
11,90
       41
           2
              *****
       19
12.02
           1
12.14
       18
           1
              安安会
12,26
       18
           1
              * * *
12,38
       3
           0
12,50
       13
           1
              * *
12,62
       7
           0
12.74
        3
              ×
           0
12,86
        6
           0
              *
12,98
        4
           0
              *
13,10
        5
           0
        2
13,22
           0
13.34
        1
           0
13.46
        0
           0
13,58
        1
           0
13,70
        0
           0
13,82
        0
           0
13,94
        0
           0
```

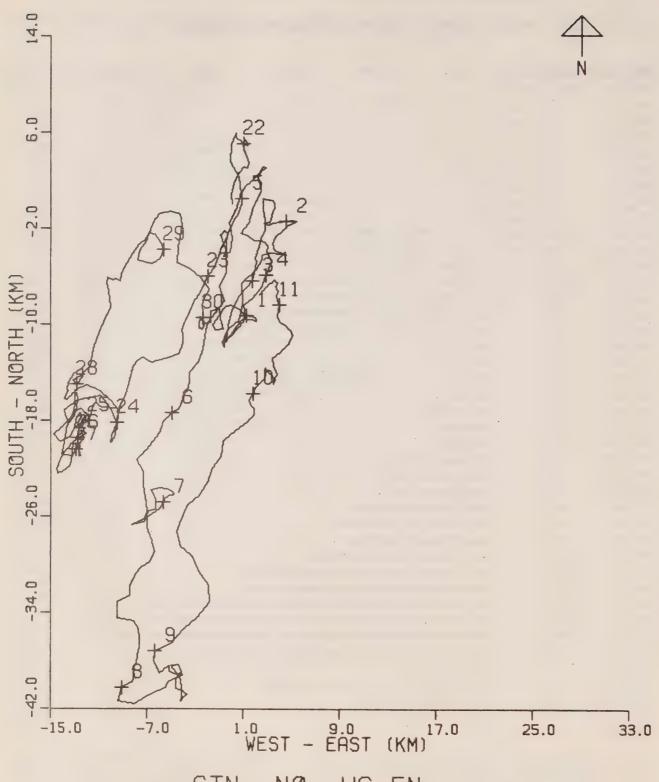
NO, OF SAMPLES OVER 14.00 = 0 NO. OF SAMPLES UNDER 9.20 = 0 TOTAL NO. OF OBSERVATIONS = 2426 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALTNITY

## HOWE SOUND HS-5N DEPTH 10M. START DATE 03/09/73

```
MEDIAN
       FREGINCY
                       60
                              120
                                       180
                                               240
                                                        300
 (PPT)
       NO. PCT
25,05
         0
25,15
            0
25,25
            0
25,35
            0
25,45
            0
25,55
            0
25,65
            0
25.75
            0
25.85
         8
            0
25,95
         3
            0
26.05
         0
            0
26.15
         2
            0
26.25
        12
            0
               * *
26,35
        13
26,45
        4
            0
26,55
        14
            1
26,65
        12
            0
26.75
        13
            1
               * *
26,85
        24
            1
26,95
        39
            2
               ****
27.05
        27
27,15
        29
            1
27.25
        56
            2
27,35
       57
27,45
       58
            2
              *****
27,55
       88
            4
              *****
27,65
       94
              *****
27,75
       91
              *********
27,85
       115
            5
27,95
       151
            6
              *******
28.05
       158
            7
              ********
28,15
       213
            9
              ***********
28,25
       209
            9
              *********
28,35
       235
              ***********
           10
28,45
      190
              *********
           8
28,55
      202
            8
              **********
28,65
       142
              *******
28.75
       86
              ********
28,85
       60
           2
              ******
28,95
        0
```

NO. OF SAMPLES OVER 29.00 = 0 NO. OF SAMPLES UNDER 25.00 = 1 TOTAL NO. OF OBSERVATIONS = 2426 SAMPLE INTERVAL = 10 MINUTES



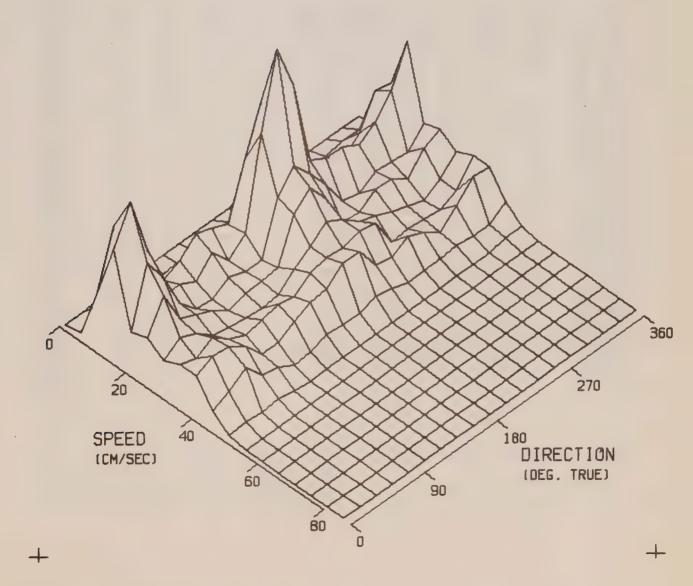
STN. NO. HS-5N DEPTH 10 M.

STARTING DATE: 21/ 9/73 ENDING DATE: 11/10/73

+

## FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N DEPTH 10 M. STARTING DATE: 21/ 9/73 NO. OF SAMPLES = 2875



STN. NO. HS-5N DEPTH 10 M.

STARTING DATE: 21/ 9/73
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)
AND SPEED (MM/SEC).

## SPEED

	000	080	160	240	320	400	480	560	640	720	800 TO	880 TO	
	TO	TO	TO	TO	10	TO	10	10	TO	799	879	959	
DIR	079	159	239	319	399	479	559	639	719	/ 7 7	017	דכד	
0= 14	001	066	035	020	020	020	001						163
,	011	094	067	040	025	021	001						259
15= 29		068	043	059	027	150	002						192
30= 44	005	035	025	017	028	017	002						127
45= 59	001	019	016	025	012	018	UVE						88
	001		010	013	009	007							58
75- 89	0.04	019	012	008	012	007							53
90-104	001			011	018	008							78
105-119	200	850	011	013	014	005							66
120-134	500	023	009	007	017	018							75
135-149	001	019	013		018								68
150-164	001	018	011	016		004							144
165-179	004	035	034	027	026	018							234
180-194	006	079	068	033	034	014							264
195-209	005	115	059	045	028	015							203
210=224	003	087	053	036	017	007							
225-239	005	038	030	020	029	010							132
240-254	005	027	025	015	017	005							
255-269	005	055	016	012	017	005							74
270-284	004	018	012	015	012	007							68
285=299	001	024	015	018	005	007							70
300-314	200	014	018	012	010	003							59
315=329	005	034	015	007	007	008							76
330-344	007	037	015	015	016	008	001						99
345-359	003	047	055	055	027	013							134
													2025
	77		634		445	_	7		0		0		2875
		979		470		563		0		0		0	

NO' OF SPEEDS EXCEEDING 960 MM/SEC # 0

## HISTOGRAM OF SPEED

# HOWE SOUND HS-5N DEPTH 10M. START DATE 21/09/73

```
MEDIAN
      FREGINCY
                     60
                            120
                                   180
                                            240
                                                    300
(MM/S)
      NO. PCT .
                            .
                                    . .
  7
       0
  21
        0
  35
       5
  49
       18
           1
             ***
  63
       29
          - 1
  77
       52
  91
      138
             *******
 105
      161
           6
             ***********
 119
     .216
           8
     175
 133
             *******
           6
 147
      218
             **********
 161
      137
           5
             ***********
 175
      110
             ******
 189
      131
             *******
 203
      99
 217
      105
 231
      97
           3
             **********
       89
 245
             *********
 259
       87
 273
       82
           3
             ********
 287
       82
           3
 301
       63
           2
 315
       92
           3
             *******
 329
       80
           3
 343
       57
 357
      107
             *****
 371
      52
           2
 385
      108
             ******
 399
      54
 413
      74
             *****
 427
       64
             *****
 441
      36
           1
 455
       30
 469
       15
           1
             女女女
 483
       10
           0
             **
 497
       5
           0
 511
           0
 525
       0
           0
 539
       0
           0
 553
       0
           0
```

NO. OF SAMPLES OVER 540 = 2 NO. OF SAMPLES UNDER 0 = 0 TOTAL NO. OF OBSERVATIONS = 2878 SAMPLE INTERVAL = 10 MINUTES

#### HISTOGRAM OF DIRECTION

#### HOWE SOUND HS-5N DEPTH 10M. START DATE 21/09/73

```
MEDIAN FREGINCY
                40
                       80
                            120
                                  160
                                         200
(DEG.T) NO. PCT .
                .
    120
  5
        4 **********
  15
     148
         5
          ***********
 25
    166
        6 *************
 35
     138
         5 ***********
 45
    104
         4 ************
 55
     74
         3 ***********
 65
     56
          *********
 75
     54
           ******
 85
     32
          ****
 95
     37
        1
          *****
         1 ******
 105
     37
 115
     56
          ******
 125
     49
         ********
     38
 135
          *****
 145
     57
         2
          *********
 155
     48
         *********
 165
     66
          *******
 175
    113
          *********
 185
     143
        5 ************
 195
     184
        6 *************
 205
        6 **********
    161
 215
    147
          ***********
 225
    105
        4 *************
 235
     81
         3 ***********
 245
     64
          ******
 255
     53
        2 **********
     49
 265
        2
          *****
 275
     44
        5
 285
     52
          ********
 295
     36
        1
          *****
 305
     43
        1 *******
 315
     42
          *******
        1
 325
     51
        2 *********
 335
     70
        2 **********
 345
     78
        3
          *******
     82
 355
        3
          *********
 365
     0
        0
 375
     0
        0
 385
      0
        0
 395
      0
        ()
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2878
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

# HOWE SOUND HS+5N DEPTH 10M. START DATE 21/09/73

```
MEDIAN
       FREGINCY
                      60
                             120
                                      180
                                              240
                                                      300
(DEG.C) NO. PCT
                                       .
 9.34
        6
            0
 9.42
        6
            0
 9.50
        9
            0
 9.58
        12
 9.66
        41
            1
              ****
 9.74
        35
              ****
            1
 9.82
        65
              *****
 9.90
        69
            2
              *******
 9,98
       104
            4
              ********
10.06
       73
            3
              *****
10.14
       132
              ******
            5
10.22
              ******
       108
10,30
       184
              *********
10.38
       8.8
            3
10,46
       181
              **********
            6
10.54
       242
              ***********
10.62
      164
              ********
10,70
       223
            8
              ***********
10,78
      159
            6
10.86
      216
            8
              *********
10,94
       134
              *******
11,02
      117
            4
              *******
11,10
       85
            3
              ******
11,18
       103
              *******
11.26
       42
           1
11.34
       38
           1
11,42
       62
11,50
       33
           1
              ****
11.58
       38
           1
11.66
       20
11.74
       20
11.82
       27
           1
              ****
11,90
        9
           0
              * *
11.98
       17
           1
              * * *
12,06
        4
           0
12.14
        3
           0
12,22
        1
           0
12.30
        3
           0
12.38
        0
           0
12.46
        3
           0
```

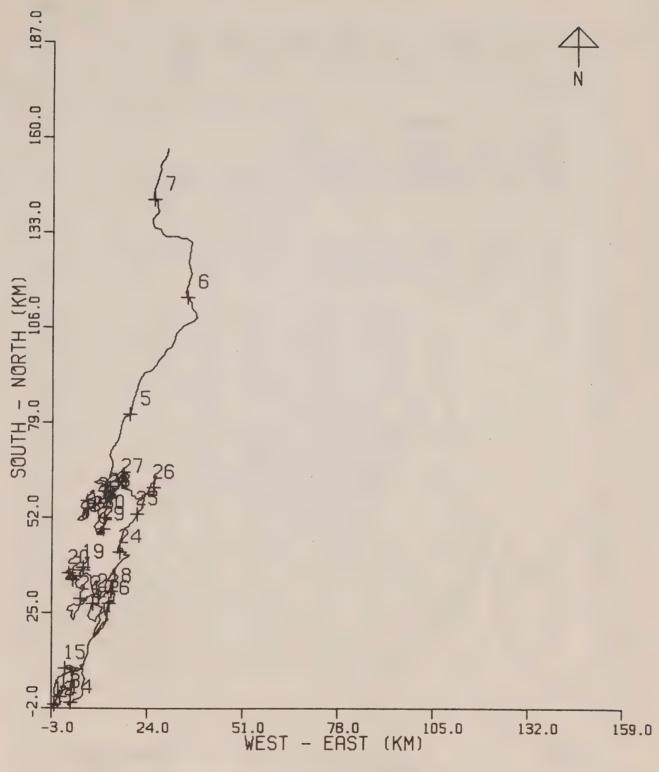
NO. OF SAMPLES OVER 12.50 = 2 NO. OF SAMPLES UNDER 9.30 = 0 TOTAL NO. OF OBSERVATIONS = 2878 SAMPLE INTERVAL = 10 MINUTES

#### HISTOGRAM OF SALINITY

#### HOWE SOUND HS-5N DEPTH 10M. START DATE 21/09/73

```
MEDTAN
      FREGINCY
                     70
                             140
                                     210
                                             280
                                                      350
(PPT)
      NO, PCT .
25,45
        2
           0
25,55
        3
25,65
        3
           0
25,75
           0
25.85
           0
25.95
        3
           0
26.05
           0
        7
26.15
           0
26.25
        5
           0
26,35
        6
           0
26,45
       10
           0
26,55
        5
           0
        3
26.65
26.75
       16
26.85
       23
26.95
       27
27.05
       30
27.15
       29
27.25
       17
27.35
       26
27,45
       35
27.55
       38
           1
27.65
       64
              *****
27.75
       55
              ****
27.85
       77
              *******
27,95
       82
           3
              *****
28,05
      171
           6
28,15
      276
              ***********
          10
28,25
      262
              **********
           9
             ***********
28,35
      313
          11
28.45
      218
          - 8
              *********
28,55
      330
          11
              **********
28,65
      249
           9
              **********
      171
28.75
              ********
28.85
      116
              *********
28,95
       77
           3
              *******
29.05
       64
29,15
       30
29,25
        9
           0
29.35
           0
```

NO, OF SAMPLES OVER 29.40 = 0 NO. OF SAMPLES UNDER 25.40 = 11 TOTAL NO. OF OBSERVATIONS = 2878 SAMPLE INTERVAL = 10 MINUTES



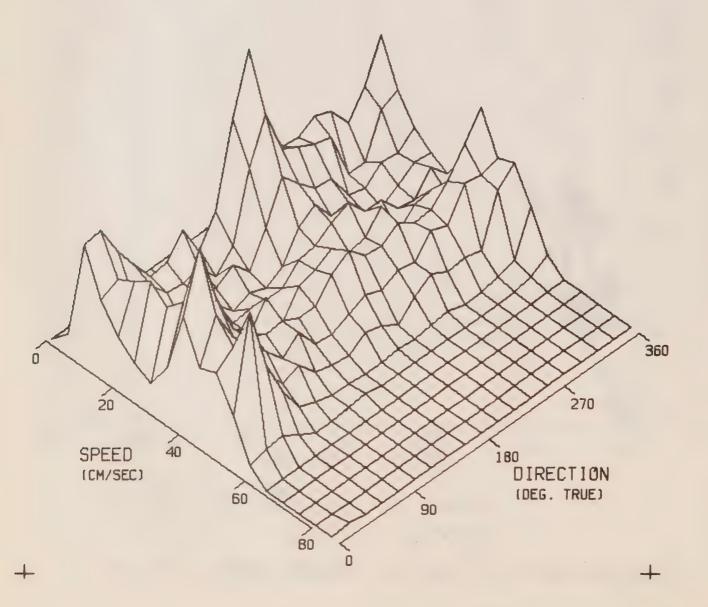
STN. NO. HS-5N DEPTH 10 M.

STARTING DATE: 11/10/73 ENDING DATE: 7/11/73

FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N DEPTH 10 M.

STARTING DATE: 11/10/73 NO. OF SAMPLES = 3912



STN. NO. HS-5N DEPTH 10 M.

STARTING DATE: 11/10/73 SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

#### SPEED

	000	080	160	240	320	400	480	560	640	720	800	880	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
0= 14	007	061	028	027	045	044	043	009					304
15= 29	013	060	045	054		061		- N.			001		281
					060	074	063	050			001		390
	009	038	033	040	034	055	054	008					271
45- 39	007	027	026	023	920	033	040	007					191
60= 74	007	850	009	018	055	039	019	004					146
75= 89	003	018	014	220	055	053	010	001					113
90-104	006	019	012	150	017	150	009						105
105=119		023	014	011	019	018	008	001					94
120=134	005	029	019	013	025	016	004	001					112
135-149	005	013	014	015	004	010	004	002					67
150-164	003	019	015	011	018	016	200						84
165=179	011	051	021	150	020	013	004						141
180=194	006	076	034	018	033	015	005						187
195=209	003	089	050	026	030	021	005						224
210=224	0.05	066	037	035	016	021	001						181
225-239	005	046	033	032	025	019	002						162
240-254	007	045	022	029	021	026	006						156
255-269	005	041	025	028	030	022	007						158
270-284	005	045	015	022	014	025	004						130
285-299	001	032	010	013	025	850	008						117
300-314	008	032	009	015	019	920	005						114
315=329	005	150	017	014	021	038	007						123
330=344	006	040		026	019	042	026	001					
		045	016		055	044	028	001					176
345=359	005	043	020	019	022	044	UED	006					189
	137		538		589		364		0		1		3912
		964		553	-	706		60		0	·	0	W

NO' OF SPEEDS EXCEEDING 960 MM/SEC = 0

#### HISTOGRAM OF SPEED

#### HOWE SOUND HS-5N DEPTH 10M. START DATE 11/10/73

```
MEDIAN
     FREGINCY
                  60
                        120
                               180
                                     240
                                             300
(MM/S)
     NO. PCT .
  - 8
     0
         0
  24
      1
         0
      7
 40
 56
      36
         1
           ****
 72
      93
           ********
 88
     176
           ********
 104
     268
         7
           ************
 120
     197
         5
           ***********
 136
     163
           ********
         4
 152
     160
         11
           *********
     119
 168
         3
           ******
     159
 184
           *********
 005
     102
         3
           ******
     99
 216
         3
           *********
 232
     85
           *****
 248
     86
           *********
     97
 264
           *****
 085
     112
         3
 296
     103
         3
           *****
 312
     130
         3
           *******
 328
     109
         3
           *********
     108
 344
         3
           ******
     112
 360
         3
 376
     143
           **********
 392
     159
         Д
           *********
 408
     138
           *******
 424
     144
           **********
     155
 440
           *********
 456
     117
         3
           ******
 472
     110
           ******
 488
     96
         2
           *****
      75
 504
         5
           *******
 520
      81
           *********
 536
      70
           *****
 552
     46
         1
 568
      24
         1
           ****
     19
 584
           * * *
         0
 600
      12
 616
      - 1
         0
 632
      0
         0
```

NO. OF SAMPLES OVER 640 = 1
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 3913
SAMPLE INTERVAL = 10 MINUTES

# HISTOGRAM OF DIRECTION

# HOWE SOUND HS-5N DEPTH 10M. START DATE 11/10/73

```
MEDIAN
     FREDINCY
                   60
                         120
                                 180
                                        240
                                               300
(DEG.T) NO. PCT
  5
     185
  15
     237
  25
            **********
     270
  35
     193
          5
            ********
  45
     141
            *********
  55
     117
          3
            *******
 65
     112
          3
            ******
 75
      75
 85
      70
            ********
 95
      76
            ********
 105
      57
 115
      62
          2
            ******
 125
      79
          2
 135
      58
          1
            ******
 145
      44
            *****
 155
      52
         1
 165
      61
            ******
 175
     118
            *******
 185
     110
            ******
195
     161
            **********
         4
205
     144
         4
            ******
215
     114
         3
            ******
225
     116
            ******
         3
235
     104
         3
            *****
245
     107
         3
            ********
255
     106
         3
           ********
265
     107
           *****
275
     87
           *****
285
     85
           ******
295
     69
           ********
305
     73
           *****
315
     80
           ********
325
     85
           *****
335
     118
         3
345
     118
           *****
         3
355
     122
         3
           **********
365
      0
375
      0
         0
385
      0
         0
395
      0
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 3913
SAMPLE INTERVAL = 10 MINUTES

#### HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 10M. START DATE 11/10/73

```
MEDIAN
        FREGINCY
                        140
                                  280
                                            420
                                                      560
                                                                700
(DEG.C) NO. PCT
                                                       .
 7,95
         6
              0
 8,05
         12
              Ô
        27
 8,15
                **
              1
 8,25
        47
             1
 8,35
        45
                **
 8,45
        100
             3
 8,55
        100
             3
 8,65
        59
             2
 8.75
        74
             5
 8.85
        90
             2
                ****
 8,95
        78
             2
                ***
 9.05
        80
             5
 9,15
        44
                ***
             1
 9,25
        41
             1
 9,35
        116
             3
                ****
        77
 9,45
             5
                ****
 9,55
        73
             2
 9,65
        97
             2
                ****
 9,75
       169
                ******
 9.85
             7
       286
                ******
 9,95
                *************
       674
            17
10.05
       501
            13
                **********
10.15
       370
             9
                *******
10,25
       190
             5
10.35
        37
             1
                安安会
10.45
        17
             0
                ★
10,55
        38
             1
10,65
        25
                会会
             4
10,75
        19
                *
10,85
        27
             1
                **
10.95
        20
             -1
                ×
11.05
        20
             1
                *
11,15
        56
             1
                ***
11,25
        29
             -1
11,35
        40
                ***
             1
11.45
        56
             -1
11,55
        49
             1
11.65
        76
             2
11,75
        48
            1 -
11,85
         0
             0
```

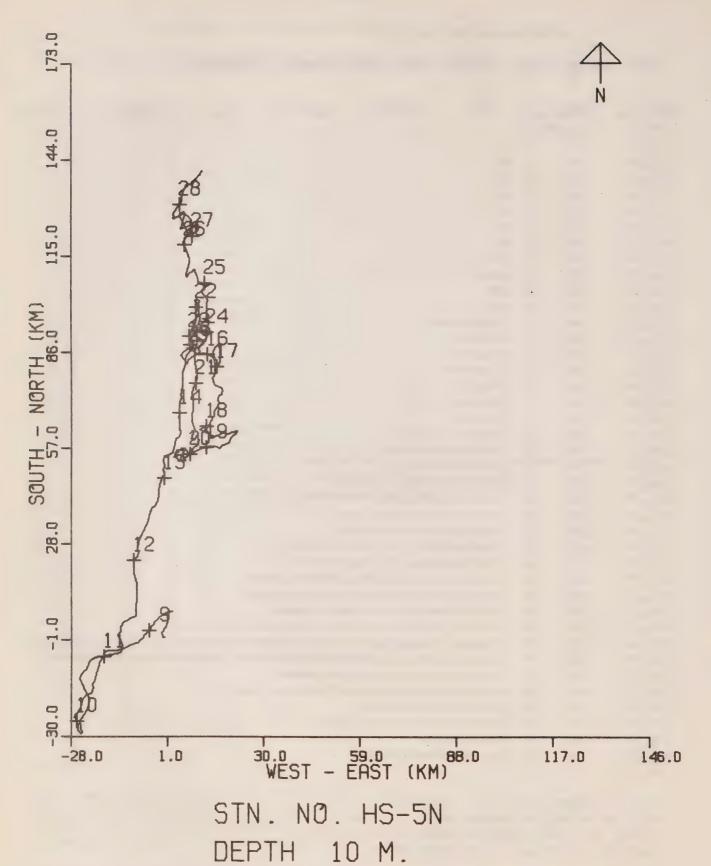
NO. OF SAMPLES OVER 11.90 = 0 NO. OF SAMPLES UNDER 7.90 = 0 TOTAL NO. OF OBSERVATIONS = 3913 SAMPLE INTERVAL = 10 MINUTES

#### HISTOGRAM OF SALINITY

# HOWE SOUND HS-5N DEPTH 10M. START DATE 11/10/73

```
MEDTAN
      FREGINCY
                    70
                           140
                                  210
                                          280
                                                 350
(PPT)
      NO. PCT
23.09
        7
           0
23,27
        8
           0
23.45
       11
           0
             * *
23,63
        8
           0
23.81
        8
           0
23.99
       7
           0
             \pm
24.17
       8
           0
             *
24.35
       18
           0
             ***
24.53
       25
           1
             ***
24.71
      16
             **
           0
24,89
       19
             ***
           0
25.07
       64
           2
             ****
25,25
       32
           1
25,43
       43
           1
             ***
25,61
       48
           1
             ****
25,79
       43
           1
             ****
25.97
       41
           1
26,15
       42
          1
             ****
26,33
       78
           2
             *****
26,51
       90
          2
             *****
26.69
       91
          5
             ******
26.87
      123
          3
             ******
27.05
      156
          4
             *******
27,23
      139
          4
             *******
27,41
      125
          3
             ******
27,59
      167
             ********
27.77
      151
          4
             ******
27,95
      186
          5
             ********
28,13
      187
          5
             *******
28,31
      170
             *******
28,49
      251
             ***********
28.67
      353
             28,85
      351
            **************
          9
29.03
            *******
      168
29.21
      204
            ********
          5
29,39
     106
          3
29,57
      140
          4
            *******
29,75
      61
          2
            *******
29,93
      114
          3
            *******
30,11
       8
```

NO. OF SAMPLES OVER 30.20 = 0
NO. OF SAMPLES UNDER 23.00 = 46
TOTAL NO. OF OBSERVATIONS = 3913
SAMPLE INTERVAL = 10 MINUTES

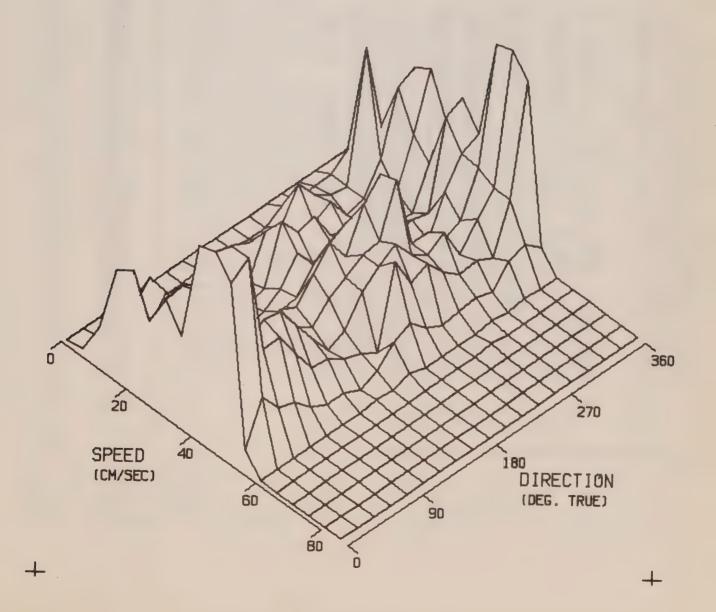


STARTING DATE: 8/11/73 ENDING DATE: 28/11/73

+

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N DEPTH 10 M. STARTING DATE: 8/11/73
NO. OF SAMPLES = 2871



STN. NO. HS=5N DEPTH 10 M.

STARTING DATE: 8/11/73 SAMPLE INTERVAL = 10 MIN.

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 3

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

#### SPEED

	000	080	160	240	320	400	480	560	640	720	800	880	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	70	TO	TO	
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
			- 7.0	. 5.4	- / /	A = P							7 4 7
0 = 14	001	030	028	051	066	105	042						323
15= 29		021	018	043	053	072	063	005					272
30= 44	005	026	030	038	030	039	031						196
45= 59	0.01	019	012	006	016	040	032	003					129
60 = 74	001	006	006	003	014	035	024						89
75= 89		007	005	005	011	037	050						82
90-104		007	001	005	008	029	013	001					61
105-119		010	001	003	050	050	006	001					61
120=134		010	0.01	003	014	017	006	001					52
135-149	001	003	003	007	014	008	004						40
150-164		013	001	009	019	010	008						60
165-179		007	021	021	031	017	001	002					100
180-194	001	015	013	018	027	024	018	001					117
195=209	_		013	019	025	031	025						113
210=224		006	010	021	850	032	021						118
225-239	002	0.05	012	021	041	038	150						140
240-254	005	028	007	022	047	950	010		001				146
255=269		003	006	007	020	019	014						69
270-284	002	003	003	004	008	017	010	002					49
285=299	001	003	003	011	017	018	010	17 C7 Sm					63
300-314	005	011	(102)	002	V = 1	010	008						36
315=329	011	047	004	006	020	055	012	003					125
330=344	001	031	023	023	027	031	023	001					160
345=359	001	032	050	050	037	055	041	0.01					267
~~~~~,5 ) /	1701	(/ <b>)</b> =	() 3 ()	000	() 20 1	ב, נ., נ.	(7 mg 3	001					4.07
	35		271		593		463		1		0		2868
	,,,	343	6 1	392	2,3	752	-400	18	4	0	V	0	5000
		247		3/6		( J) K.,		10		V		V	

## HISTOGRAM OF SPEED

HOWE SOUND HS-5N DEPTH 10M. START DATE 08/11/73

```
MEDIAN
    FREGINCY
               40
                     8.0
                               160
                          120
                                      200
(MM/S)
    NO. PCT .
    0 0
 -8
 24
        0
 40
     2
        0
 56
     14
         ***
 72
    17
 88
     85
 104
    75
 120
    104
         ******
 136
     87
         ******
 152
     49
     37
 168
        1
 184
     56
         *****
 200
     71
         ******
 216
     64
        2
         *****
 232
     51
        2
 248
     41
        1
         *****
 264
     60
         ******
 085
    90
         *******
296
     91
         ******
312
    102
        4
328
    103
         *****
344
    130
        5
         **********
360
    135
         *********
376
    131
         *********
392
   136
       5
         **********
408
    94
       3
         *********
424
    156
       5
         ***********
440
    163
         **********
456
    147
         **********
472
    150
         **********
488
    147
         **********
504
    128
         ********
    88
520
         ******
536
    71
         ******
552
    34
       1
         *****
568
     8
       0
584
     3
       0
600
     5
       0
616
     0
       0
632
     0
```

NO. OF SAMPLES OVER 640 = 4
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2871
SAMPLE INTERVAL = 10 MINUTES

#### HISTOGRAM OF DIRECTION

## HOWE SOUND HS=5N DEPTH 10M, START DATE 08/11/73

```
200
                                            250
     FREGINCY
                 50
                       100
                              150
MEDIAN
(DEG.T) NO. PCT .
           ***********
     755
  5
         8
           **********
  15
     220
         8
     159
          **********
  25
  35
     129
          *******
     114
         4
           *******
  45
  55
     76
         3
           *****
         2
      62
           *******
  65
      68
         2
           ********
 75
 85
     44
         2
 95
      41
         1
      35
 105
 115
      41
           ****
      37
 125
           ****
 135
      32
         1
 145
      26
         1
      41
 155
           ****
      42
 165
         1
           ****
 175
      82
         3
           *****
 185
      74
         3
           *****
      79
 195
         3
           ******
      75
         3
 205
           *****
     71
           ******
 215
         2
 225
     100
         3
           ******
 235
      86
         3
           ******
     103
 245
           ***********
     73
         3
 255
     37
 265
           ****
      29
 275
         1
           ****
 285
     50
           *****
      31
           ****
 295
         1
      55
 305
      69
 315
         2
           *****
      79
 325
         3
           ******
 335
     114
           ********
 345
     129
           ********
 355
     174
         6
 365
       0
 375
       0
         0
 385
       0
         0
 395
```

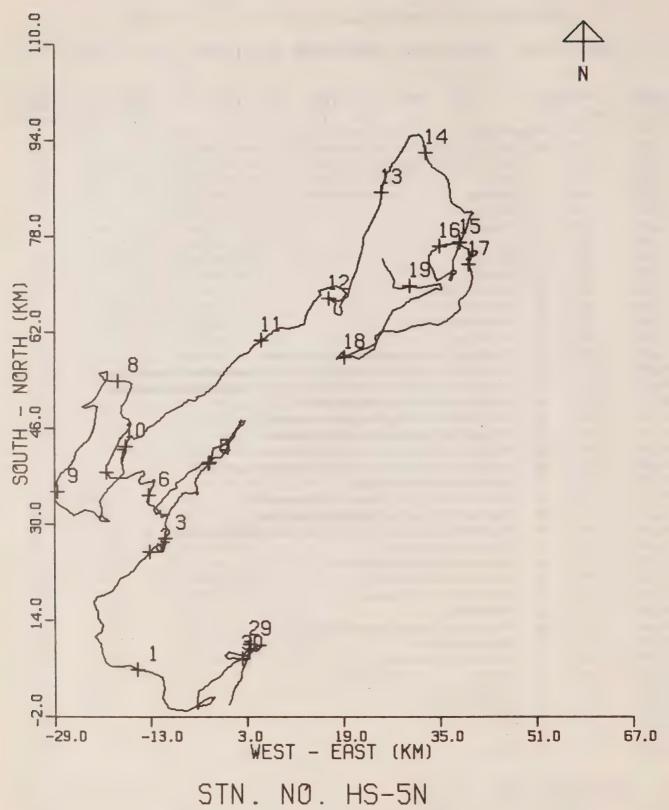
NO, OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2871
SAMPLE INTERVAL = 10 MINUTES

# HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 10M. START DATE 08/11/73

```
MEDIAN
      FREGINCY
                   50
                          100
                                 150
(DEG.T) NO. PCT
                                        200
                                                250
 7,42
                           .
       5
                                                 .
 7.46
       - 1
          0
 7.50
       11
          0
            * *
 7.54
      15
          1
             **
 7,58
      24
            ****
          1
 7.62
      13
 7,66
      28
          1
 7.70
      28
          1
 7.74
      23
          1
 7,78
      23
          1
 7.82
      51
7.86
      41
            *****
          1
 7,90
      53
          2
            *****
7,94
      34
          1
7,98
      130
            *******
          5
8.02
      211
            女女女女女女女女女女女女女女女女女女女女女女女女女女女女女女女女女女女
          7
8,06
     209
            8.10
     104
            ******
          4
8.14
            *******
     128
          4
8,18
     126
            ******
8.22
     135
          5
            ****
8.26
     163
            6
8.30
     85
          3
            ********
8.34
     140
          5
            *******
8.38
     133
          5
            *******
8.42
     185
            ***********
          6
8,46
     70
          2
            *****
8.50
     101
          4
            *******
8.54
     75
          3
            ******
8.58
      83
         3
            *****
8,62
     34
         1
            *****
8,66
    112
         4
            ******
8.70
     54
         2
            *******
8.74
      68
         2
            *****
8,78
     24
         1
            ****
8.82
     45
         2
           *****
8.86
     48
         2
           ****
8.90
     14
         0
           ***
8.94
     10
         0
           **
8,98
     31
         1
           ****
```

NO. OF SAMPLES OVER 9.00 = 2
NO. OF SAMPLES UNDER 7.40 = 1
TOTAL NO. OF OBSERVATIONS = 2871
SAMPLE INTERVAL = 10 MINUTES
LEASED.



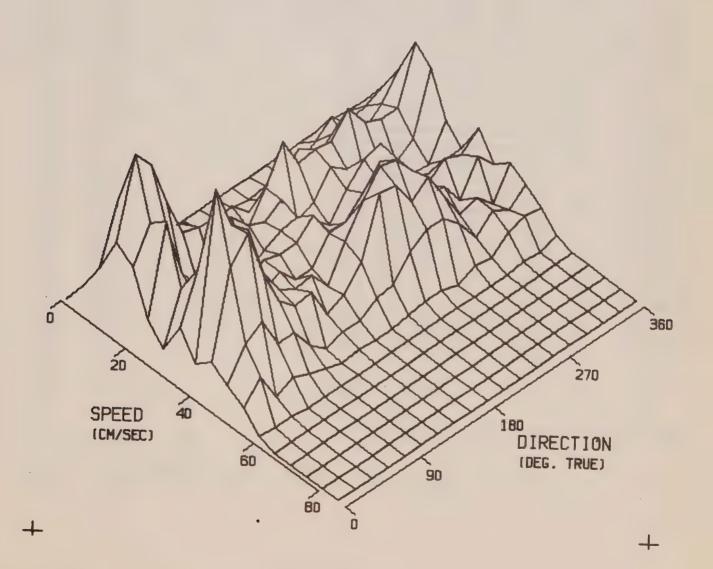
DEPTH 10 M.

STARTING DATE: 28/11/73 ENDING DATE: 19/12/73

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# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N DEPTH 10 M. STARTING DATE: 28/11/73 NO. OF SAMPLES = 3000



STN. NO. HS=5N DEPTH 10 M.

STARTING DATE: 28/11/73 SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

#### SPEED

	000	080	160	240	320	400	480	560	640	720	800	880	
	TO	TO	TO	TO	ŦΟ	TO	TO	TO	TO	TO	TO	TO	
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
0 4 4	004	A 7 7	0/10	422	07/	A 13 7	A 4 D	007					4.00
0= 14	006	037	049		036		018	003					198
15= 29	007	066	055	036	058	072	920	002					322
30= 44	001	057	052	024	050	069	019	001					273
45= 59	0.07	041	025	016	045	059	016	001					203
60= 74	003	035	008	013	036	038	015						148
75= 89	001	029	008	012	026	028	012						116
90-104	001	055	007	008	014	014	008						74
105-119	001	025	028	016	055	024	002						118
120-134	002	013	013	014	011	014	001						68
135=149	005	010	016	013	014	011	003						69
150-164	001	007	019	016	009	007	005						61
165-179	0.05	005	019	056	016	018	005						88
180-194		013	018	013	020	059	006						96
195=209	0.01		013	014	058	042	004						124
210-224	001	018	0.08	008	036	046	012	001					130
225-239		015	014	006	034	041	010						120
240-254	001	023	021	056	033	037	019						160
255=269		011	016	027	024	035	012						125
270-284	005	021	010	029	055	056	011						124
285=299	003	050	015	014	019	016	005						92
300-314	007	007	004	008	015	013	0.08						62
315-329	003	011	005	0.06	012	011	012	001					61
330-344	004	015	013	0.05	017	010	014	005					8.0
345-359	007	055	016	007	013	013	0.08	002					8.8
	59		452	-	610		245		0		0		3000
		545		379		697		1.3		0		0	

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 0

## HISTOGRAM OF SPEED

# HOWE SOUND HS-5N DEPTH 10M START DATE 28/11/73

```
MEDIAN
     FREGINCY
                40
                      80
                            120
                                  160
(MM/S)
                                        200
     NO. PCT
  8
      0
        0
 24
      0
        0
 40
      9
        0
 56
     24
        1
          ****
 72
     26
        1
 88
     62
          ******
 104
     89
          ******
 120
          ********
    117
136
    139
          *********
        5
152
    138
          ********
        5
168
    129
          *********
184
    103
        3
          *******
200
     8.0
        3
          *****
216
     80
        3
          *******
232
    8.0
          *****
248
     61
        2
          *****
264
     70
        2
          *****
280
     59
        2
296
     85
        3
          ******
312
     84
        3
          *******
328
    102
        3
          *******
344
    129
          ***********
360
    134
          **********
376
    132
          ***********
392
         **********
    146
        5
408
    110
          *********
424
         *********
    154
        5
440
    150
         *********
456
    130
         皮壳油类类类类类类类类类类类类类类类类类类类类类类类类类类
472
    120
         *********
488
    92
        3
         ******
504
    63
         *******
520
    44
         ******
536
    31
         *****
552
    20
       1
         ***
568
     3
       0
584
       0
600
     1
       0
616
     0
       0
632
     0
       0
```

NO. OF SAMPLES OVER 640 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES

#### HISTOGRAM OF DIRECTION

#### HOWE SOUND HS-5N DEPTH 10M START DATE 28/11/73

```
MEDIAN
     FREQINCY
             50
                   100 150
                                      200
                                             250
(DEG.T) NO. PCT .
  5
     126
  15
     168
         6
  25
     246
           ***********
         8
           **********
  35
     199
         7
  45
     147
         5
           *******
  55
     123
         4
           **********
  65
     96
         3
  75
      78
         3
           ******
  85
      83
         3
           ******
  95
      46
         2
           ****
 105
      65
         2
      85
 115
         3
 125
      39
           ****
         1
 135
      46
         2
           *****
 145
      48
         2
           *****
 155
      37
         1
           为有会会会会会
 165
      48
         2
           ****
 175
      67
         2
           ******
 185
      67
         2
           *******
 195
      61
         2
      92
 205
         3
           *******
 215
      90
         3
 225
      75
         3
           ****
           *****
 235
     86
         3
 245
     112
           *******
 255
     100
         3
           *******
 265
     67
         2
 275
      85
         3
           *****
      80
 285
         3
           ******
      53
 295
         2
           *****
      39
 305
           *****
 315
      38
 325
      50
         2
           ****
 335
      51
         2
           *******
      50
         5
 345
 355
      57
         2
           *****
 365
      0
         0
 375
      Ö
         0
 385
      0
         0
 395
      0
         0
```

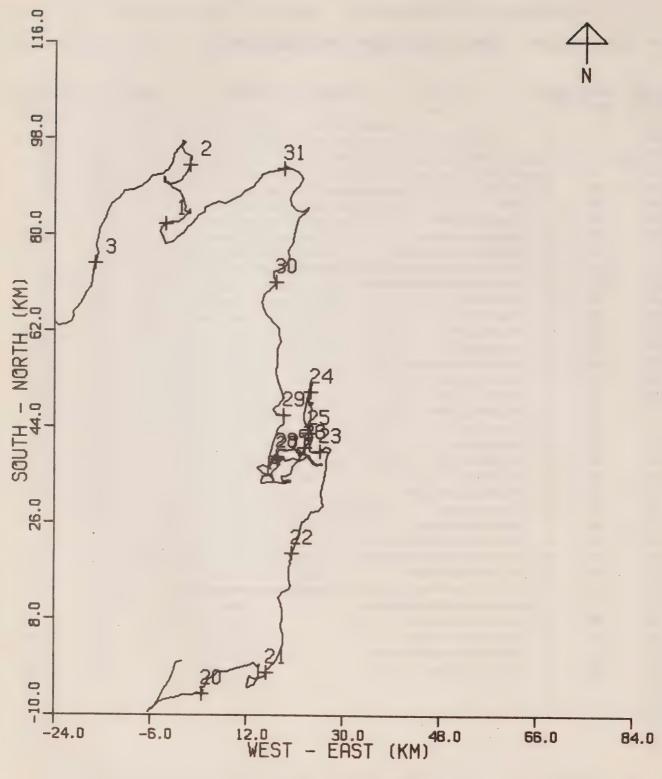
NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES

# HISTOGRAM OF TEMPERATURE

# HOWE SOUND HS-5N DEPTH 10M START DATE 28/11/73

```
MEDIAN
      FREGINCY
                      80
                              160
                                      240
                                               320
(DEG.C) NO. PCT .
                                                       400
                               .
6.63
        0
            0
6.69
        0
            0
6,75
        3
            0
6.81
       6
            0
6.87
       28
            1
              ***
6.93
       25
            1
6,99
       88
           3
7.05
       91
           3
              *****
7,11
      112
           4
              *****
7.17
      556
           8
              ******
7.23
      137
           5
              ****
7,29
       59
           2
              ****
7,35
       68
           2
              *****
7.41
       70
           2
              *****
7,47
       52
           2
7,53
     100
           3
              ****
7.59
       72
           2
              ****
7,65
       33
           1
7.71
       77
           3
              *****
7.77
       58
           2
              ****
7.83
       67
           2
              ****
7,89
       74
           2
              *****
7,95
      59
           2
              ****
8,01
      103
           3
              ****
8.07
     73
           2
8,13
      93
           3
              特别长大大大大大大大大大
8,19
      132
           4
              *****
8,25
           5
      144
              *****
8.31
      104
           3
              *****
      297
8.37
          10
              **************
8,43
      133
           4
              *****
8.49
      99
           3
              *******
8.55
     106
              ****
8,61
      124
           4
              *****
8.67
     87
           3
             ******
8.73
       0
           0
8,79
       0
           0
8.85
      - 0
           0
8,91
       0
           0
8.97
       0
           0
```

NO. OF SAMPLES OVER 9.00 = 0
NO. OF SAMPLES UNDER 6.60 = 0
TOTAL NO. OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES



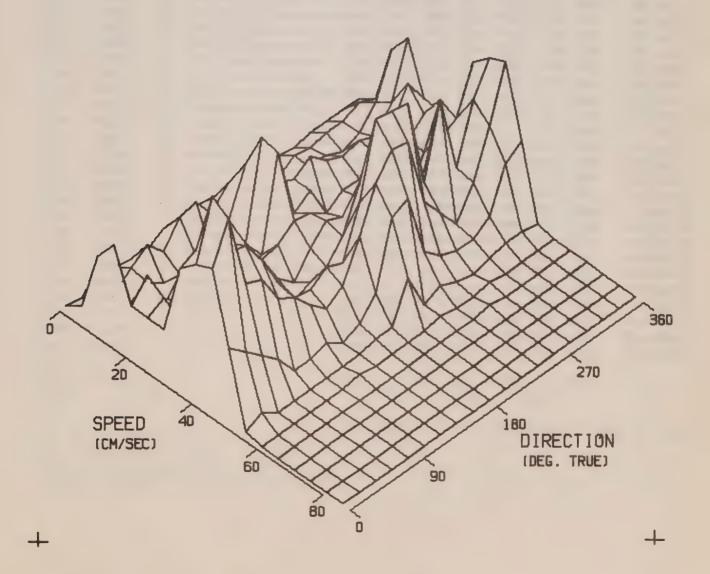
STN. NO. HS-5N DEPTH 10 M.

STARTING DATE: 19/12/73 ENDING DATE: 3/ 1/74

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FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N DEPTH 10 M. STARTING DATE: 19/12/73
NO. OF SAMPLES = 2196



STN. NO. HS-5N DEPTH 10 M.

STARTING DATE: 19/12/73
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

#### SPEED

	133	183	257	286	491	677	158	11	0	0	0	0	2196
	477		257		# Q #		150				•		2104
345=359	004	025	016	019	033	048	021						166
330=344	006	009	024	017	024	028	009						117
315-329	003	005	016	015	018	013	0.05						75
300-314	004	004	011	005	019	020	004						67
285-299	004	006	009	013	014	012	005						. 60
270-284	003	005	005	010	021	017	001	001					63
255=269	003	005	008	004	029	850	006						83
240-254	007	009	003	004	022	0.45	005	002					94
225=239	007	010	003	008	026	050	007	005					113
210-224	002	004	011	013	024	048	019	001					122
195=209	008	010	008	015	014	036	027	005					120
180-194	007	030	033	016	015	016	008	001					126
165=179	008	010	010	004	007	014	004						57
150-164	008	004	003	006	006	010	002	001					40
135-149	008			006	007	006							27
120-134	011	001	005	008	005	012	001						43
105=119	006		005	010	010	015	002	001					49
90-104	004	006	009	011	009	020	005						61
75= 89	005	003	016	021	014	025	005						86
60- 74	007	005	007	150	032	035	005						106
45- 59	003	002	005	017	035	025	0.05						92
30- 44	007	200	007	010	024	043	008						101
15= 29	004	012	020	014	047	057	012						166
0= 14	004	019	023	019	036	054	007						162
W & 11	911									,			
DIR	079	159		319		479				799			
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
	000	080	160	240	320	400	480	560	640	720	800	880	

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 0

## HISTOGRAM OF SPEED

# HOWE SOUND HS-5N DEPTH 10M START DATE 19/12/73

```
MEDIAN
     FREGINCY
                  40
                         80
                                120
                                       160
                                              200
     NO. PCT .
(MM/S)
  8
     11
         1
  24
      31
            *****
 40
      29
 56
      28
 72
      34
         2
 88
      35
         5
 104
      32
         1
 120
      25
 136
      45
         2
            *****
 152
      46
         2
           *****
 168
      53
         2
           *****
      46
 184
         2
           *******
 200
      48
         2
 216
      62
         3
           *****
 232
      67
         3
           ******
 248
      52
         2
           *****
 264
     58
         3
           *****
280
     54
         2
296
     53
         2
312
     50
         2
328
     67
344
     84
           ******
360
     110
         5
           *******
376
     124
           *****
         6
392
     129
           ******
         6
408
     122
           *******
424
     155
           *************
440
     143
           **********
456
     127
           *****
         6
472
     107
           ******
488
     64
         3
504
     58
         3
           *****
520
     19
           ****
         1
536
     12
         1
552
      9
           **
         0
568
      3
         0
           w .
584
      2
         0
600
      1
         0
616
      0
         0
632
      1
         0
```

NO. OF SAMPLES OVER 640 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2196
SAMPLE INTERVAL = 10 MINUTES

#### HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 10M START DATE 19/12/73

```
90
                                  120
                                        150
                30
                      60
MEDIAN
    FREGINCY
(DEG.T) NO, PCT .
          *********
  5
     115
        5
 15
     113
        5
          ***********
          ***********
 25
    107
     72
 35
        3
          *******
     54
        2
          ********
 45
     70
 55
        3
          ******
     75
        3
          ********
 65
     57
        3
 75
 85
     58
        3
          ******
 95
     44
          *********
     85
 105
        1
 115
     30
        1
          ****
     32
 125
        1
     19
 135
        1
          ****
     55
 145
        1
          *****
     23
 155
        1
          ****
 165
     29
        1
          ****
 175
     50
          ******
     90
 185
          ********
 195
     90
        4
          *********
     63
 205
        3
          ******
     91
 215
          ********
        3
 225
     76
          *******
 235
     65
        3
          *******
 245
     65
        3
          ******
 255
     68
        3
          ******
     45
        2
          *****
 265
 275
     48
        2
          *****
 285
     32
        1
          *****
 295
     41
        2
          *****
 305
     47
        5
          *****
 315
     45
        2
          *****
 325
     54
 335
     71
          ********
     105
        5
 345
          *********
     102
 355
        5
          **********
      0
 365
        0
 375
      0
        0
 385
      0
        0
 395
      0
        0
```

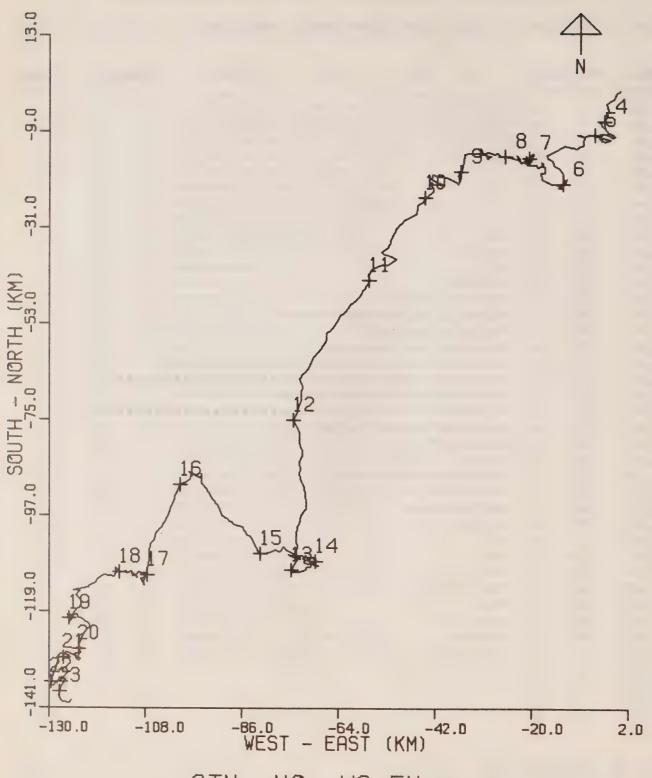
NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2196
SAMPLE INTERVAL = 10 MINUTES

# HISTOGRAM OF TEMPERATURE

# HOWE SOUND HS-5N DEPTH 10M START DATE 19/12/73

```
MEDIAN
       FREGINCY
                         60
                                  120
                                           180
                                                     240
                                                               300
(DEG.C)
       NO. PCT .
7.22
         0
             0
7,26
         Û
             0
7.30
         1
             0
7.34
         2
             0
7.38
         2
             0
7.42
         0
             0
7,46
         1
             0
7,50
         4
             0
7.54
        26
             1
7.58
        31
             1
7,62
        10
             0
7,66
        43
             2
                ****
7.70
        89
             4
                *****
7.74
       150
             7
                ******
7.78
       92
             4
7,82
       125
             6
7.86
       223
            10
7.90
       243
            11
                ***********
7.94
       147
             7
                ********
7,98
       263
            12
                在传统市场发生的大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大
8,02
       122
                ******
             6
8.06
        58
             3
8.10
       30
             1
8,14
       108
             5
                ******
8,18
       72
             3
                *****
8,22
        68
             3
                ******
8,26
        35
             2
                ****
8.30
        7
             0
8.34
        18
             1
                食食金
8.38
       18
            1
               ***
8.42
        64
             3
               *****
8.46
        26
             1
8,50
       54
             2
               有申请大会会会会
8.54
       43
            2
               ****
8,58
        11
            1
               食食
8.62
        8
            0
8.66
        2
            0
8.70
        0
            0
8.74
        0
            0
8.78
        0
            0
```

NO. OF SAMPLES OVER 8.80 = 0
NO. OF SAMPLES UNDER 7.20 = 0
TOTAL NO. OF OBSERVATIONS = 2196
SAMPLE INTERVAL = 10 MINUTES
RELEASED.



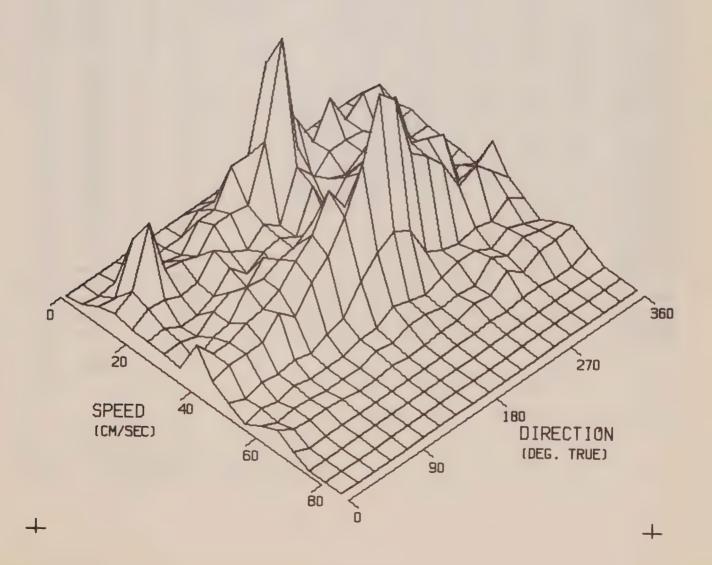
STN. NO. HS-5N DEPTH 10 M.

STARTING DATE: 3/ 1/74 ENDING DATE: 23/ 1/74

+

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N DEPTH 10 M. STARTING DATE: 3/1/74 NO. OF SAMPLES = 2858



STN. NO. HS-5N DEPTH 10 M.

STARTING DATE: 3/ 1/74
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

#### SPEED

	000	080 TO	160 TO	240 TO	320	400 TO	480 TO	560 T0	640 TO	720 10	800 TO	880 TO	
DIR	079	159	239	319	399		559		719		879	959	
0= 14		005	006	007	006	014	500	001	0.05				46
15= 29		008	013	002	008	014	001	001	003				50
30= 44		033	016	001	007	013	003	003	001				77
45= 59	004	021	012	005	012	010	003	002	001				68
60= 74	001	005	006	008	014	016	002	002	(, o );				54
75= 89	001	011	008	010	019	016	002		001				68
90-104	001	006	015	011	019	014	001						67
105=119	001	011	011	015	023	020	002						83
120-134	002	018	012	011	027	027	004						101
135=149	006	013	012	009	028	029	006	002					105
150-164	007	028	011	013	042	043	009	002					155
165-179	005	055	010	006	020	051	011	004					129
180-194	004	059	018	016	025	064	018	004					805
195-209	012	078	041	017	028	086	020	003					285
210=224	005	045	018	009	044	089	021	001	001				233
225=239	005	027	015	017	030	077	005	004					174
240-254	004	024	007	030	040	053	011	001	003				173
255=269	005	014	015	017	036	053	007	005	001				147
270-284	003	050	020	059	059	042	006	009	004				162
285=299	004	050	021	019	028	036	004	004	0.05				138
300-314	005	011	014	016	017	059	007	007	003				109
315=329	005	017	012	0.08	007	055	006	007	003				84
330=344	005	012	005	003	009	019	009	004	003				66
345=359	001	021	004	004	010	015	005	009	004				73
	74		322		528		162		35		0		2855
	, ,	529		283		852		70		0		0	

NO. OF SPEEDS EXCEEDING 960 MM/SFC = 3

# HISTOGRAM OF SPEED

HOWE SOUND HS-5N DEPTH 10M START DATE 03/01/74

```
MEDIAN
      FREQINCY
                     60
                             120
                                     180
                                             240
                                                     300
(MM/S)
      NO. PCT
  9
        0
           Ô
  27
        4
           0
  45
       12
           0
  63
       43
           2
              ****
  81
       85
           3
  99
      129
           5
              *****
 117
      134
           5
             考究实实实实实实实实实实实实实实实实实实
 135
      102
 153
       94
           3
 171
      106
 189
       64
 207
       71
             ****
 225
       66
 243
       60
           2
             *****
 261
       60
           2
             *****
 279
      54
 297
      72
           3
             ****
 315
      79
           3
 333
      81
           3
             ****
 351
      122
 349
     130
           5
             ****
 387
      168
             ******
 405
      170
             *****
423
     188
             *******
441
     221
             南南南南南南南南南南南南南南南南南南南南南南南南南南南南南南南南
459
     180
             *****
477
     126
             *****
495
      60
          2
513
      26
          1
531
      33
             ***
549
      1.0
          Ö
567
      10
          Ö
             **
585
      16
          1
603
      18
621
      19
639
      15
          1
657
      14
          0
675
      10
          ۵
693
       3
          ٥
711
          Ô
```

NO. OF SAMPLES OVER 720 = 3
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2858
SAMPLE INTERVAL = 10 MINUTES

#### HISTOGRAM OF DIRECTION

# HOWE SOUND HS-5N DEPTH 10M START DATE 03/01/74

```
250
                                       200
     FREGINCY
                  50
                        100
                               150
MEDIAN
(DEG.T) NO. PCT
  5
      37
           ****
         1
  15
      30
         -1
           ****
  25
      34
         - 1
           ****
      48
         2
  35
            *****
      57
  45
            *****
  55
      38
         1
      33
           *****
  65
         1
      45
  75
            *****
  85
      46
         2
           *****
 95
      44
          2
         2
      48
 105
      58
          2
 115
           *****
 125
      68
          2
            *****
 135
      64
          2
      78
          3
 145
            ******
     109
 155
            ******
            ******
      92
          3
 165
 175
     87
          3
            *******
 185
     132
          5
            ******
            **********
 195
     174
          6
          7
            **********
 205
     191
 215
     148
          5
            *******
 225
     144
          5
            *******
 235
     112
          4
            *******
 245
     127
          4
            ********
 255
     88
          3
     103
 265
          4
            ******
 275
     102
          4
            ******
 285
     113
           *******
      84
 295
          3
           ******
      73
 305
          3
           *********
      67
          2
 315
           ******
 325
      48
          2
            *****
 335
      45
          2
      52
 345
          2
           *****
      39
 355
       0
 365
          0
 375
       0
          0
 385
       0
          0
 395
       0
```

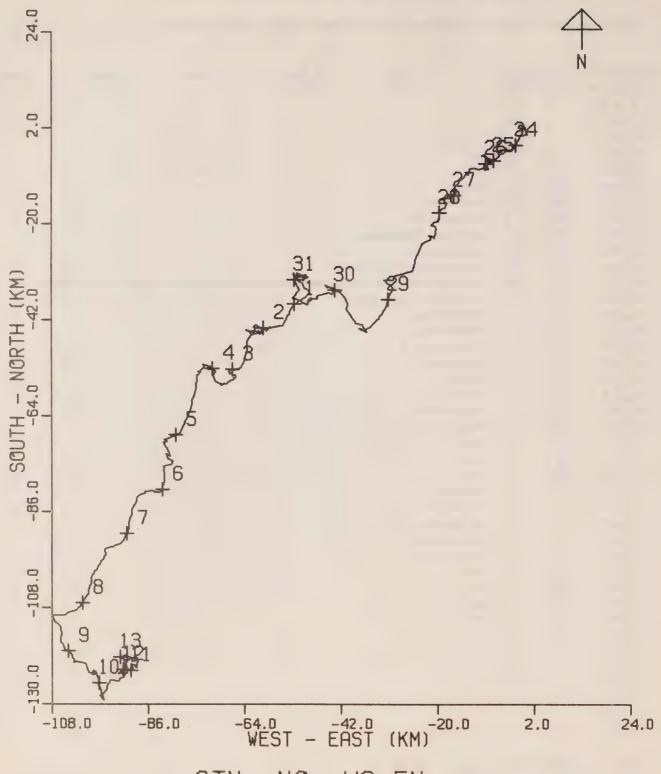
NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2858
SAMPLE INTERVAL = 10 MINUTES

# HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 10M START DATE 03/01/74

```
MEDIAN
        FREGINCY
                         120
                                    240
                                              360
                                                        480
                                                                  600
(DEG.C) NO. PCT
                          .
 5,34
                                                                   .
          0
              0
 5.42
          1
              Ō
 5,50
         12
              0
 5,58
         - 8
              0
                 蒙
 5,66
         24
              1
                 **
 5.74
         55
              5
 5.82
         82
              3
                 ****
 5,90
         96
              3
5,98
       161
                 ****
              6
6.06
        98
              3
                 ****
6.14
       197
              7
                 *****
6.22
       730
             26
                 6.30
       177
             6
6.38
        82
              3
                 *****
6.46
        78
              3
                 ****
6.54
       103
              4
                 *****
6,62
        66
              2
                 ****
6.70
        75
              3
                 女前会会会会
6,78
        52
              2
6.86
        82
              3
                 ****
6.94
        33
             1
                 ***
7.02
        38
             1
                 女女女
7.10
        33
             1
                 **
7.18
        36
             1
7.26
        62
             5
                ***
7.34
        72
             3
7.42
       119
             7.1
                ****
7,50
        92
             3
                ****
7,58
        78
             3
                资产资产大大大
7.66
        35
             1
                女肉食
7.74
        85
             1
                **
7,82
        18
             1
                安安
7,90
        33
             1
                女女女
7.98
         5
             Õ
8.06
         0
             0
8.14
         0
             0
8.22
         0
             0
8,30
         0
             0
8.38
         0
             0
8.46
         0
             0
```

NO. OF SAMPLES OVER 8.50 = 0
NO. OF SAMPLES UNDER 5.30 = 0
TOTAL NO. OF OBSERVATIONS = 2858
SAMPLE INTERVAL = 10 MINUTES



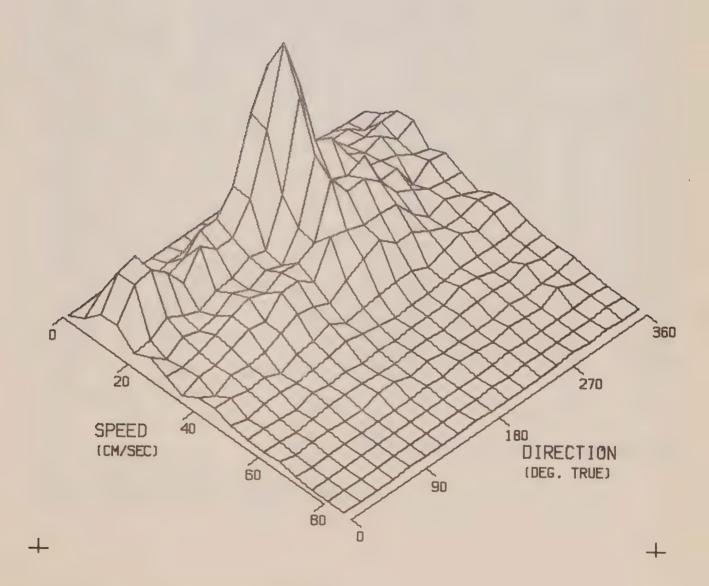
STN. NO. HS-5N DEPTH 10 M.

STARTING DATE: 23/ 1/74 ENDING DATE: 13/ 2/74

+

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N DEPTH 10 M. STARTING DATE: 23/ 1/74
NO. OF SAMPLES = 3000



STN. NO. HS=5N DEPTH 10 M.

STARTING DATE: 23/ 1/74
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

### SPEED

	104						59				6	2	2956
	190		407		770		6.0		30				2054
345=359	005	015	008	009	004	007	006	005	0.05		001		59
330-344		007		010			0.01			005			55
315=329	007	016		010			005				0.01		68
300-314	010	015			007	014		003					90
285=299	010	019	023	058	008	004	005	0.0.1	001				96
270-284	005	021	058	025	016	007	005	004	001		001		113
255=269	010	036		040	021	009	003	0.05	005				161
240=254	010	049	031	043	032			003		005			187
225-239	021	045	040	036	027		005				001		183
210=224	013	081	059	061	033	014		001					595
195=209	059	109	111	068	035	013		001	005	001			369
180=194	008	106		048	031		001	001					275
165=179	005	059	031	016	018		003				0.01		144
150=164	006	043	006	013	017	005	002						92
135=149	001	030	014	021	021	015	004	005	005				110
120=134	001	028	013	014	025	010	004	001					96
105=119	004	019	017	016	014	010	005	005	001				88
90-104	005	019		026	009		004						79
75 89		013	010	012	013	005	004	005			001		57
60 = 74	003	013	007	013	009		004	001					50
45 = 59	006	042	012	005	009	008	001	0.01	001			001	86
30- 44	012	038	014	010	006	0.06	0.03					001	90
15= 29	013	047	011	002	003	007	001	002					86
0= 14	003	024	010	007	003	007	002	001	003				60
		4			3				, ,	•			
DIR		159					559						
	TO	T0			TO		10				To		
	0.00	080	160	240	320	400	480	560	640	720	800	880	

NO. OF SPEEDS FXCEEDING 960 MM/SEC = 44

### HISTOGRAM OF SPEED

HOWE SOUND HS-5N DEPTH 10M START DATE 23/01/74

```
MEDIAN
      FREGINCY
                      60
                             120
                                      180
                                               240
                                                       300
(MM/S)
      NO. PCT
                              .
  11
       4
  33
       22
  55
       71
  77
      169
  99
      262
              ********
 121
      249
              南南南南南南南南南南南南南南南南南南南南南南南南南南南南南南南南南南南南
 143
      254
              8
 165
      243
              187
      155
           5
 209
      156
           5
 231
      123
 253
      139
           5
 275
      171
              *********
 297
      142
              ******
 319
      127
 341
      146
           5
 363
       87
       92
 385
           3
 407
       74
 429
       52
           2
 451
       48
           2
 473
       32
           1
 495
       17
              救救业
 517
       22
              ***
 539
       11
           Ô
              **
 561
       14
           Õ
              **
 583
       12
              食食
              ***
 605
       16
           1
 627
       8
           0
 649
       6
           0
 671
       6
           0
 693
       9
           0
715
       5
           0
737
           0
759
       0
           0
781
       1
           0
803
       1
           0
825
       3
           0
847
       1
869
       2
```

NO. OF SAMPLES OVER 880 = 46
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES

### HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 10M START DATE 23/01/74

```
200
                                                250
                   50
                         100
                                 150
     FREGINCY
MEDIAN
(DEG.T) NO. PCT
  5
      49
          2
  15
      40
          1
            ****
      63
  25
            *****
      67
  35
          2
            *******
  45
      60
            ******
  55
      50
  65
      39
  75
      36
            ****
  85
      36
          1
            ****
  95
      49
          2
            ****
      64
            ******
 105
      62
          2
            *****
 115
            *****
      65
          2
 125
 135
      72
          2
            ********
 145
      66
          2
            ********
          2
 155
      64
      79
          3
            *********
 165
            *******
 175
     111
 185
    170
            ********
          6
            ***************
 195
     248
     229
 205
     184
            **********
 215
          6
 225
     142
            *********
 235
     122
          4
            *******
 245
     125
          4
            *********
    107
 255
            ******
     117
 265
            ************
     82
          3
            *********
 275
 285
      72
          2
            *********
 295
      58
            ******
      59
 305
          2
      58
 315
          2
            *****
 325
      44
          1
            *****
 335
      38
          1
 345
      44
            *****
      29
 355
          - 1
 365
       0
 375
       0
 385
       0
          0
 395
```

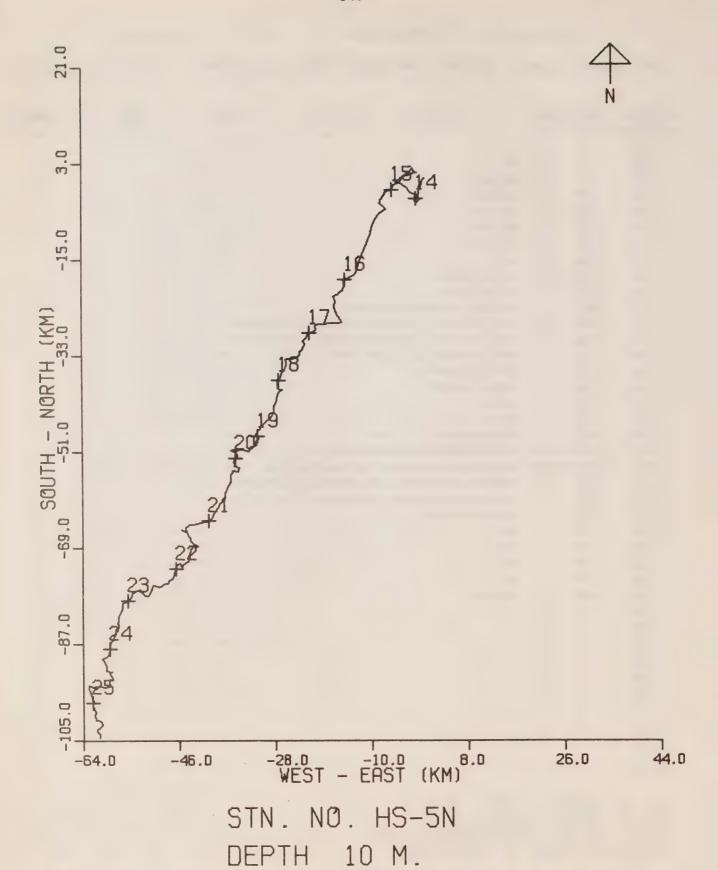
NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES

### HISTOGRAM OF TEMPERATURE

### HOWE SOUND HS-5N DEPTH 10M START DATE 23/01/74

```
MEDIAN
      FREGINCY
                     100
                              200
                                      300
                                               400
                                                       500
(DEG.C) NO. PCT
                      .
                               .
                                       ٠
5.34
       0
            0
5.42
       11
            0
5.50
       50
            2
              ****
5,58
       59
            2
5.66
       53
           2
5.74
       51
           5
              ****
5.82
       46
           5
5.90
       34
           1
              ***
5,98
       86
           3
              ****
6.06
       83
              ****
           3
6.14
      181
           6
              *****
6.22
     298
          10
              *******
6.30
      256
           Q
              ********
6.38
     186
              ******
           6
6.46
      105
              *******
6.54
      86
           3
              *****
6.62
      35
           1
              黄大会会
6.70
      65
           2
              ****
6.78
       82
              *****
           3
6.86
     194
           6
              *****
6.94
      259
           9
              ******
7.02
      303
          10
              *******
7.10
      212
              *****
          7
7.18
      101
           3
              *****
7.26
      17
              专来
7.34
      38
           1
              ***
7.42
       18
           1
              **
7.50
      19
           1
7,58
       48
           2
              ****
7.66
       15
           1
              **
7.74
       1 .
           0
7,82
       1
           0
7.90
       5
           Ô
7.98
       0
           0
8.06
       0
           0
8.14
       0
           0
8.22
       0
           0
8,30
       0
           0
8.38
       1
           0
8.46
       0
           0
```

NO. OF SAMPLES OVER 8.50 = 0
NO. OF SAMPLES UNDER 5.30 = 1
TOTAL NO. OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES

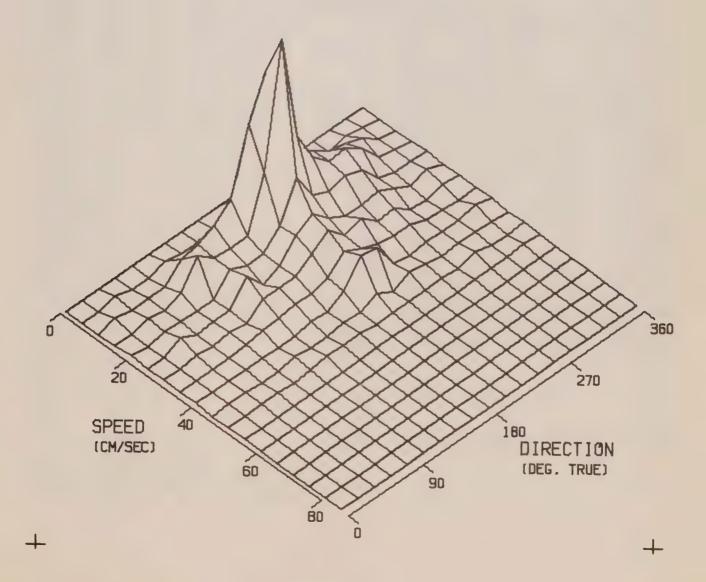


STARTING DATE: 13/ 2/74 ENDING DATE: 25/ 2/74

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# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N DEPTH 10 M. STARTING DATE: 13/2/74 NO. OF SAMPLES = 1784



STN. NO. HS-5N DEPTH 10 M.

STARTING DATE: 13/ 2/74
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

### SPEED

	000 TO	080 TO	160 TO	240 TO	32n T0	400 TO	480 TO	560 TO	640 TO	720 TO	800 TO	880 TO	
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
0= 14		001	500	003	002	001	001						10
15= 29		004		002	001	001	001						9
30= 44	004	200	003	008	001	0.01							19
45= 59		002	003		002		001						8
60= 74		003	003	003	001	002	001						13
75= 89		005	003	002	002								12
90=104	001	018	005	003	003		001						31
105-119	003	025	010	012	003	002	001						. 56
120=134	001	018	015	015	006		002						57
135=149	001	027	009	012	007	001	002						59
150=164	004	027	008	009	006	001	003						58
165-179	009	052	024	019	008	002	002						116
180=194	020	101	030	032	022	0.05	001						211
195-209	026	176	068	034	023	018							345
210=224	020	1.05	042	026	028	005							526
225=239	007	073	018	017	016	004	001						136
240-254	002	029	027	018	005	005	0.01						87
255=269	004	037	024	016	007	003	002						93
270-284	002	027	028	013	009	001	001						81
285=299	003	031	016	004	003	003	0.03						63
300=314	005	018	010	003	005	001	002						38
315=329	003	009	001	001	001	0.05	001						21
330-344	001	0.05	006	007		004	0.01						24
345=359	001		001	001	0.01	0.05	005						8
	114		356		159		30		0		0		1781
		795		260		67		0		0	4.	0	<b>p</b> , ,

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 3

### HISTOGRAM OF SPEED

### HOWE SOUND HS-5N DEPTH 10M START DATE 13/02/74

```
MEDIAN
       FREGINCY
                         50
                              100
                                           150
                                                     200
                                                              250
(MM/S)
       NO. PCT .
   7
         0
             0
  21
         2
             Ö
  35
         3
             0
  49
        19
             1
  63
        36
  77
        87
             5
                *****
  91
       134
             8
 105
       135
             8
                ******
 119
       178
            10
 133
       127
             7
                ******
 147
       158
             9
                ********
 161
        66
             Д
 175
        81
             5
 189
        82
             5
 203
        60
             3
                ****
 217
        56
             3
 231
        41
             2
 245
        34
             2
 259
        61
             3
                ****
 273
        47
             3
 287
        51
            3
 301
        33
             2
 315
        47
            3
 329
        26
            1
 343
        31
            2
               ***
 357
        25
            1
 371
       25
            1
 385
       36
            2
 399
       20
 413
       14
 427
       16
 441
        8
            0
               **
 455
        6
            0
 469
        4
            0
 483
        8
            0
               黄黄
 497
        5
            0
 511
        9
            1
               **
 525
        3
            0
 539
        4
            0
        3
 553
```

NO. OF SAMPLES OVER 560 = 3
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 1784
SAMPLE INTERVAL = 10 MINUTES

### HISTOGRAM OF DIRECTION

### HOWE SOUND HS-5N DEPTH 10M START DATE 13/02/74

```
200
MEDTAN
       FREGINCY
                        50
                                 100
                                           150
                                                              250
(DEG.T)
       NO. PCT
                                                               .
   5
         8
             0
  15
         4
             0
         7
  25
             0
        10
  35
             1
        15
  45
             1
  55
         5
             0
  65
         8
             0
                * *
  75
         B
             0
                * *
         Q
  85
             1
                * *
        16
  95
             1
             2
  105
        36
        39
 115
                ****
 125
        44
             2
                *****
        31
 135
             2
 145
        39
             2
 155
        47
             3
                *****
        43
 165
             2
                *****
 175
        97
             5
                ******
             7
 185
       129
                *********
 195
       191
            11
                **********
 205
       239
            13
                ********
 215
       158
             9
 225
       105
             6
                ********
 235
        90
             5
                **********
 245
        62
             3
        56
 255
             3
             3
 265
        61
 275
        63
 285
        42
             2
        36
 295
        26
 305
        25
 315
             1
 325
        11
             1
                **
 335
        17
                ***
 345
        1.0
             1
 355
         3
             0
 365
         0
 375
         0
             0
 385
         0
 395
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 1784
SAMPLE INTERVAL = 10 MINUTES

### HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 10M START DATE 13/02/74

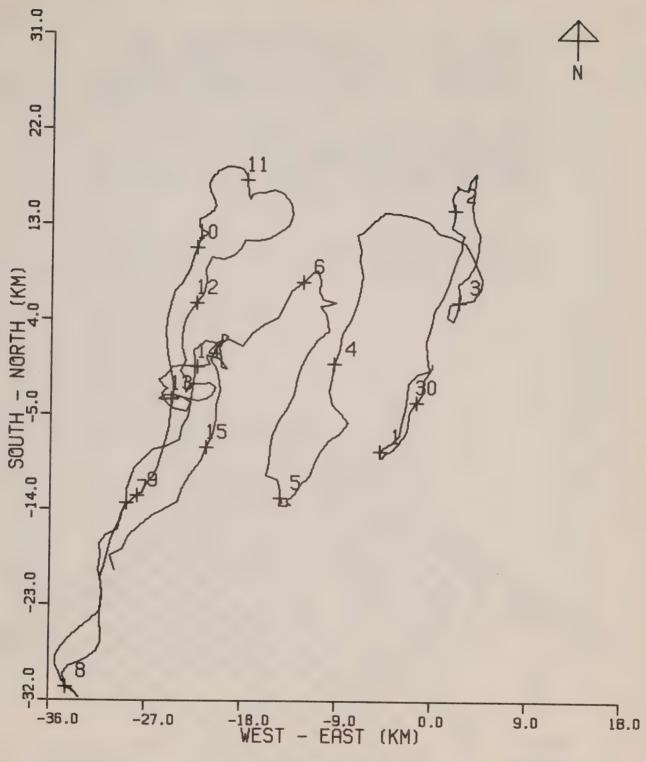
```
MEDIAN
       FREGINCY
                         60
                                  120
                                           180
                                                     240
                                                               300
(DEG.C) NO. PCT .
                                   .
5.62
         0
             0
5,66
        12
             1
                **
5.70
        29
             5
                ****
5.74
        22
             1
5.78
        44
             2
5.82
        23
             1
                ***
5.86
         5
             Ö
5.90
         1
             0
5.94
         3
             0
5,98
        10
             1
                * *
6.02
         8
             0
                ŵ.
6.06
         5
             0
6.10
         3
             0
6.14
        16
             1
                ***
6.18
        17
             1
                ***
6,22
        15
             1
                ***
6.26
        7
             0
6.30
        17
             1
6.34
        34
             2
                ****
6.38
        44
             2
                *****
6.42
        56
             3
                *****
6.46
        22
             1
                ***
6.50
        36
             2
6.54
        45
             3
                *****
6.58
        61
             3
                *****
6.62
        35
             2
                ****
6.66
        93
             5
                ******
6.70
        61
             3
                *****
6.74
        88
             5
                ******
6.78
        37
             2
                ****
6.82
       131
             7
                ******
6.86
       145
             8
                *********
6.90
       252
            14
                **********
6.94
       182
            10
                ********
6.98
        72
            4
                *******
7.02
        45
             3
                ****
7,06
        49
             3
                *****
7.10
        38
            2
                ****
7.14
        8
             0
7.18
        12
            1
               **
```

NO. OF SAMPLES OVER 7.20 = 1 NO. OF SAMPLES UNDER 5.60 = 0 TOTAL NO. OF OBSERVATIONS = 1784 SAMPLE INTERVAL = 10 MINUTES



DATA FOR 15-METRE DEPTH





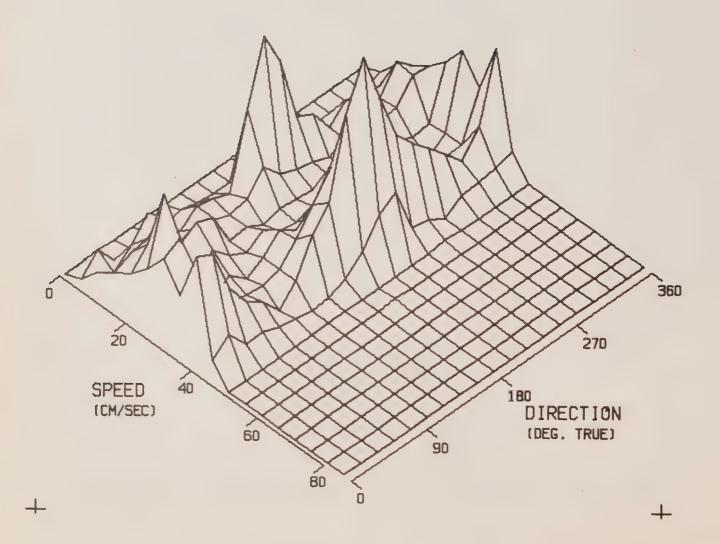
STN. NO. HS-5S DEPTH 15 M.

STARTING DATE: 29/11/72 ENDING DATE: 15/12/72

+

## FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5S DEPTH 15 M. STARTING DATE: 29/11/72 NO. OF SAMPLES = 2297



STN. NO. HS=58 DEPTH 15 M.

STARTING DATE:29/11/72 SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

### SPEED

	000	080	160	240	320	400	480	560	640	720	800	880	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
0 = 14	0.05	014	027	050	049	025							167
15= 29	010	014	034	065	039	059							191
30= 44	005	017	053	033	012	055							109
45- 59	005	031	027	009	012	009							90
60- 74	003	014	028	014	008	008							75
75= 89	004	013	023	016	012	007							75
90-104	001	006	019	010	004	005							42
105-119	003	007	013	009	004	003							39
120=134	001	013	008	0.08	014	004							48
135=149	001	006	009	016	055	012							66
150=164		008	003	010	028	013							62
165=179	0.01	033	004	007	053	055	001						121
180=194	001	034	005	013	048	036							137
195=209	014	051	003	012	055	058							193
210=224	014	032	003	029	048	058							184
225*239	016	023	003	017	041	037							137
240=254	007	011	003	018	027	018	001						85
255*269	006	011	003	012	008	055							62
270=284	003	003	010	015	019	010							60
285-299		014	017	008	009	026							74
300=314		015	012	006	009	006							48
315=329		015	012	004	004	011							46
330=344		011	022	003	011	014							61
345=359	002	012	033	850		017							125
						_							40 Basy 2 F
	93		344		569		5		0		0		2297
		408		412		469		0		0		0	,

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 0

### HISTOGRAM OF SPEED

### HOWE SOUND HS-58 DEPTH 15M START DATE 29/11/72

MEDIAN	FREGIA	NCY	50	100	150	200	250
(MM/S)	NO. PO	CT,					
6	0	0					
18	0	0					
30	1	0					
42	3	0	w				
54	11	0	**				
66	43	2	****				
78	66	3	*****				
90	85	4	******	•			
102	81	4	*****				
114	51	2	*****				
126	52	5	*****				
138	46	2	*****				
150	45	5	****				
162	56	2	*****				
174	50	2	*****				
186	60	3	*****				
198	61	3	*****				
210	50	5	****				
555	51	5	****				
234	52	5	****				
246	31	1	****				
258	72	3	*****				
270	73	3	****				
282	59	3	****				
294	56	5	*****				
306	62	3	****				
318	61	3 .	****				
330	59	3	***				
342	65	3	<b>市市市市大市市市市市市市</b>	<b>A.</b>			
354	91 98	4	*****				
366		4	****	***			
378	94	4	*****	**			
390	141	6	*****		***		
402	96	4	*****				
414	174 93	8	*****		******	*	
438			*****	সে স			
450	66 28	3	*****				
462	11	1	**				
474	1 1	0					
4/4	1	U					

NO. OF SAMPLES OVER 480 = 2 NO. OF SAMPLES UNDER 0 = 0 TOTAL NO. OF OBSERVATIONS = 2297 SAMPLE INTERVAL = 10 MINUTES

### HISTOGRAM OF DIRECTION

### HOWE SOUND HS=58 DEPTH 15M START DATE 29/11/72

```
MEDIAN
     FREGINCY
                 30
                        60
                               90
                                     120
                                            150
(DEG.T) NO. PCT
  5
     119
         5
           15
     123
           有有支充的食物或有有有有有有有大大的食物的有有有有有有有有有有有有有有有有
         5
  25
     133
         6
           35
     75
         3
           *****
 45
      52
           *****
 55
      65
         3
           ******
 65
     49
           *****
 75
     48
         2
           *****
 85
     43
           *****
 95
     30
         1
           *****
 105
     26
           *****
         1
 115
     27
           ******
     29
 125
         1
           *****
 135
     42
         2
           ******
 145
     44
         2
           ******
 155
     38
         2
           ******
 165
     53
         2
           *****
 175
     93
         4
           **********
 185
     92
         4
           *******
 195
     115
         5
           实实实实实实实实实实实实实实实实实实实实实实实实实实实实实实实实实实实实实实
 205
     129
         6
           南京北京北京北京省北京北京北京大学大学市大学北京大学大学大学大学大学大学大学大学
 215
    131
           225
     103
         4
           *******
235
     84
         4
245
     48
         2
           ******
255
     60
         3
           *******
265
     38
         2
275
     34
           *******
285
     49
         2
           *********
295
     47
           *****
305
     35
         5
           ******
315
     30
         1
           ******
325
     31
         1
           ******
335
     35
         2
345
     64
        3
          *******
355
     83
          *******
365
     0
        0
375
      0
385
      0
        0
395
      0
```

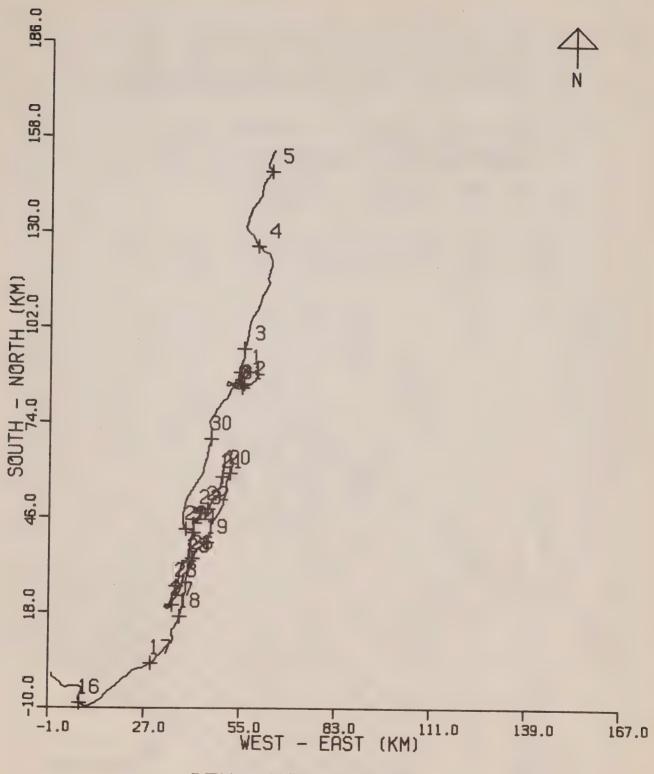
NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2297
SAMPLE INTERVAL = 10 MINUTES

#### HISTOGRAM OF TEMPERATURE

### HOWE SOUND HS-58 DEPTH 15M START DATE 29/11/72

```
120
                                      180
                                              240
                                                       300
MEDIAN
      FREGINCY
                      60
(DEG.C) NO. PCT .
                                                        .
        0
6.04
           0
        0
           0
6.12
6.20
        0
           0
6.28
        1
           0
        9
6.36
           0
6.44
        3
           0
              常
6.52
        3
           0
6.60
       7
           0
6.68
       10
           0
              黄黄
6.76
       76
           3
6.84
       96
           4
              *****
      203
6.92
           9
              ********
7.00
       92
7,08
       72
           3
              *****
7.16
       31
              ****
           1
7.24
              ******
       64
           3
7.32
       31
           1
7.40
       31
           1
7.48
       46
           5
             *****
7.56
       53
              *****
           2
7.64
      107
           5
              *****
7.72
      88
             *******
7.80
       83
           4
             *********
7,88
      122
           5
             *******
7.96
           5
      108
             *****
8.04
      143
           6
             ********
8,12
      104
           5
             *******
8,20
      109
           5
             **********
8,28
       33
              女女女女女女
           1
       28
8.36
           1
       98
8.44
           4
             *****
8.52
      204
           9
             ***********
8.60
      106
           5
             *********
8.68
      109
           5
              **********
       25
8.76
           1
8.84
       5
           0
8,92
        0
           0
9.00
       0
           0
9.08
        0
           0
9.16
           0
        0
```

NO. OF SAMPLES OVER 9.20 = 0
NO. OF SAMPLES UNDER 6.00 = 0
TOTAL NO. OF OBSERVATIONS = 2297
SAMPLE INTERVAL = 10 MINUTES



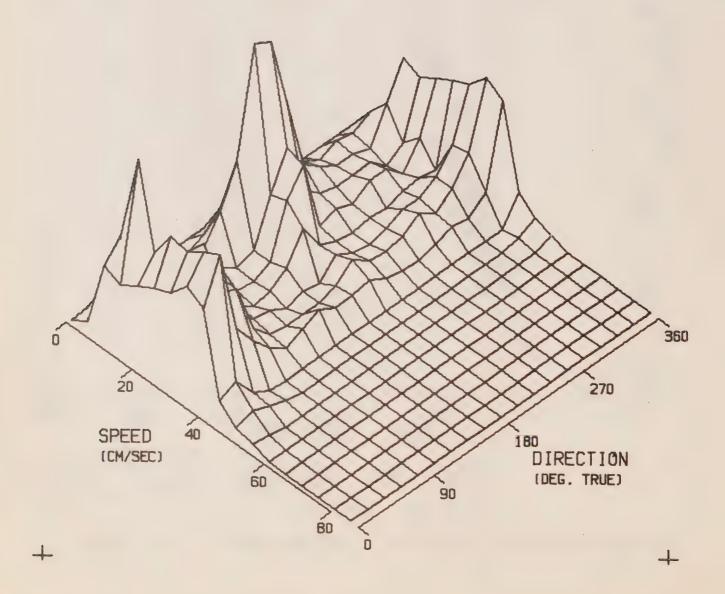
STN. NO. HS-5S DEPTH 15 M.

STARTING DATE: 15/12/72 ENDING DATE: 5/ 1/73

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## FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5S DEPTH 15 M. STARTING DATE: 15/12/72 NO. OF SAMPLES = 3000



STN. NO. HS=58 DEPTH 15 M.

STARTING DATE: 15/12/72 SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

### SPEFD

	000	080	160	240	320	400	480	560	640	720	800	880	
	TO												
DIR	079	159	239	319	399	479	559	639	719	799	879		
0 = 14	009	074	048	091	113	031	006						372
15- 29	018	100	070	086	091	049	009						423
30- 44	011	042	044	070	057	017	004						245
45= 59	006	018	029	063	053	012	001						182
60= 74	010	027	024	045	033	004	001						144
75- 89	009	150	013	014	013	002							72
90-104	003	055	010	011	007	001							54
105-119	004	018	005	011	006	001							45
120=134	006	014	003	003	008	004							38
135-149	009	017	004	005	011	003							49
150-164	019	031	007	003	004	004							68
165-179	017	067	016	010	008	001							119
180=194	026	101	053	024	011	004							219
195-209	035	090	050	009	019	500							205
210=224	024	060	010	006	010	001							111
225=239	011	850	013	005	008	001							66
240-254	005	020	011	007	007	001							51
255-269	011	014	014	006	009	002							56
270-284	010	007	017	004	014	001							53
285-299	006	009	019	015	013	001							63
300-314	010	003	009	020	010	200							54
315=329	006	005	007	011	020	002							51
330-344	015	015	016	019	024	003							92
345=359	011	029	037	032	043	012	004						168
													4 4
	291		529		592		25		0		0		3000
		832		570		161		0		0		0	

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 0

### HISTOGRAM OF SPEED

### HOWE SOUND HS=58 DEPTH 15M START DATE 15/12/72

```
MEDTAN
     FREGINCY
                  50
                        100
                               150
                                       200
                                              250
     NO. PCT .
(MM/S)
  7
      0
         0
  21
       1
         0
      5
  35
         0
  49
      43
     119
  63
           ********
     193
  77
           *********
  91
     214
         7
           *********
    138
         5
 105
           *********
 119
     155
           ********
 133
     104
         3
           ********
     128
 147
           ********
 161
     76
         3
           *****
 175
     86
         3
           ***********
 189
     105
     88
 203
         3
           ******
 217
     124
         4
           ********
     73
 231
         2
           *****
     86
 245
         3
           ******
 259
     101
         3
 273
     78
         3
           *****
 287
     111
           ******
 301
      95
         3
           ******
 315
     134
           ********
 329
     100
           ******
     79
 343
           *********
 357
     138
 371
     86
         3
           . ************
 385
     131
           *********
 399
     77
         3
           *****
 413
      51
         2
           *****
 427
      23
         1
 441
      12
           **
         0
      9
 455
           * *
 469
      -8
         0
           * *
 483
      8
         0
           黄黄
 497
      7
 511
      6
         0
 525
      4
         n
           ŵ
 539
      4
         0
 553
      0
         0
```

NO. OF SAMPLES OVER 560 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES

### HISTOGRAM OF DIRECTION

### HOWE SOUND HS-55 DEPTH 15M START DATE 15/12/72

```
MEDTAN
     FREGINCY
                   60
                     120
                                180
                                        240
                                                300
(DEG.T) NO. PCT .
  5
     262
  15
     287
         10
            **********
  25
     264
         Q
            **********
  35
     177
            ********
  45
     122
     122
  55
            ***********
  65
     98
          3
            ********
  75
      69
  85
      41
            ****
 95
      35
          1
            ****
 105
      34
 115
      28
 125
      25
 135
      32
 145
      34
          1
 155
      41
 165
      65
           ****
 175
      89
          3
            *********
 185
     143
          5 *************
 195
     147
            ********
 205
     131
            *******
 215
      68
            *****
 225
      67
            ******
      37
 235
 245
      35
 255
      33
 265
      34
          1
      34
 275
 285
      41
 295
      43
            ****
 305
      37
          1
 315
      33
          1 *****
 325
      36
 335
      66
      77
 345
            *****
 355
     113
            *********
          4
 365
      0
          0
 375
       0
          0
 385
       0
          0
 395
       0
          0
```

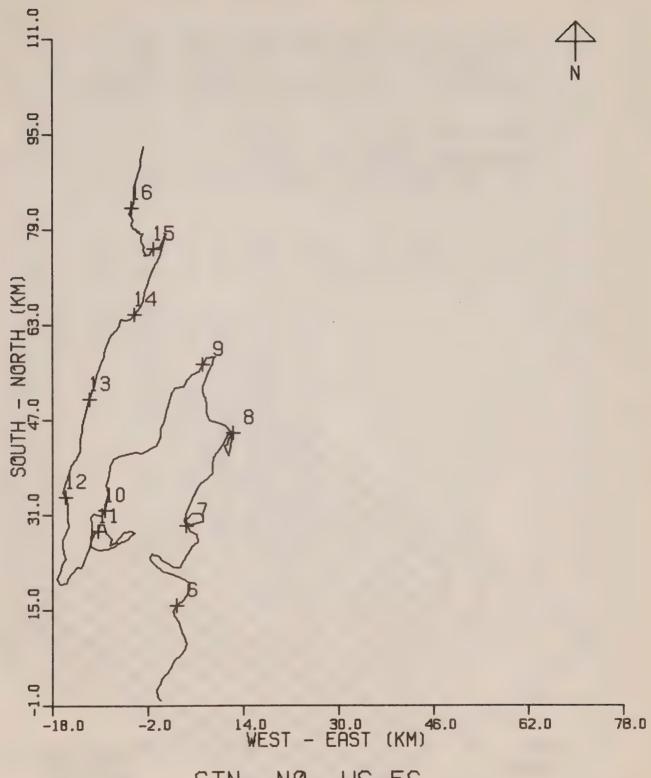
NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES

### HISTOGRAM OF TEMPERATURE

#### HOWE SOUND HS-58 DEPTH 15M START DATE 15/12/72

```
FREGINCY
MEDIAN
                    60
                           120
                                   180
                                           240
                                                   300
(DEG.C) NO. PCT
5.54
       0
           0
       5
5.62
           0
5.70
       17
           1
5.78
       55
           1
5.86
       29
           1
5.94
       70
           2
6.02
       88
           3
             *****
6.10
      113
           4
             *******
6.18
           5
      164
             *******
6.26
      118
           4
             *******
6.34
      75
           3
             *****
      70
6.42
           2
             *****
6.50
             *******
      151
           5
6.58
      171
           6
             *******
6.66
       94
           3
             ******
6.74
      94
           3
             ******
6.82
      113
           4
             *****
6,90
      80
           3
             *****
6.98
       67
           2
             *******
7.06
      61
           2
             ******
7,14
           2
       61
7.22
       41
           1
             安安会会会会
7.30
      49
           5
             ****
7,38
      37
             ***
7.46
      85
           3
             ******
7.54
      69
           2
             ******
7.62
      64
           2
             *****
7.70
           2
      56
             灾害会会会会会会会
7.78
             ******
      142
           5
7,86
      190
           6
             *******
7.94
      138
           5
             *****
8.02
      94
           3
             *****
8.10
           4
      122
             ******
8,18
      120
           4
             ******
8,26
      58
           2
             ****
8.34
      59
           2
             *****
8.42
       13
             食食
           0
8.50
      0
           0
8.58
       0
           0
8,66
       0
           0
```

NO. OF SAMPLES OVER 8.70 = 0
NO. OF SAMPLES UNDER 5.50 = 0
TOTAL NO. OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES

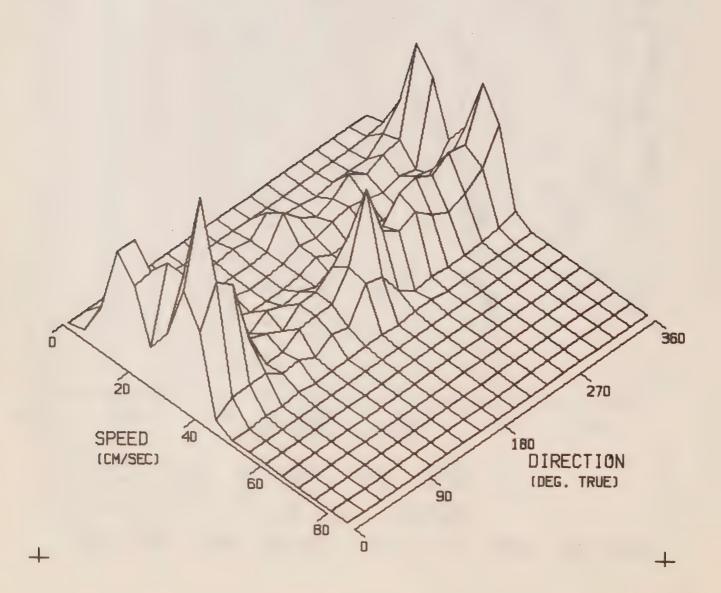


STN. NO. HS-5S DEPTH 15 M.

STARTING DATE: 5/ 1/73 ENDING DATE: 16/ 1/73

## FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5S DEPTH 15 M. STARTING DATE: 5/ 1/73
NO. OF SAMPLES = 1617



STN. NO. HS-58 DEPTH 15 M.

STARTING DATE: 5/ 1/73 SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

### SPEED

	000	080 TO	160 TO	240 TO	320 TO	400 TO	480 TO	560 TO	640 TO	720	800 TO	880 TO	
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
0= 14 15= 29 30= 44 45= 59 60= 74 75= 89	003 007 001	045 033 020 005 002	064 046 021 001	036 061 024 009 003 007	060 091 056 040 015	024 025 025 014 010	001						232 263 147 69 30 28
90=104 105=119 120=134 135=149 150=164	001	006	005	001 003 002 001 002 001	006 006 008 011 009 017	005 005 004 009 004 013							23 21 15 22 16 34
165=179 180=194 195=209 210=224		002 002 017 008	001	003	024 041 027	032 024 011	001						62 89 50
225=239 240=254 255=269 270=284		002	003 005 005	003	028 029 030 028	009 004 006							44 38 46 51
285=299 300=314 315=329 330=344 345=359	001	002 005 005 013 021	002 003 005 003 016	001 008 019 018 013	032 030 025 027 048	005 006 003 010 015							42 52 57 72 114
	14	203	204	222	699	273	5	0	n	0	0	0	1617

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 0

### HISTOGRAM OF SPEED

HOWE SOUND H8-53 DEPTH 15M START DATE 05/01/73

```
200
                       40
                                        120
                                                 160
                                80
MEDIAN
       FREGINCY
       NO. PCT .
(MM/S)
   7
        0
            0
        0
            Ω
  21
  35
        1
            0
  49
        6
            0
        2
  63
            0
        9
  77
            1
        25
            2
  91
       30
 105
        33
 119
       33
 133
 147
       61
        52
            3
 161
               ****
        45
 175
            3
        57
 189
            4
               *********
        23
 203
            1
        22
 217
            1
        5.5
               按索索有查查
 231
            1
        24
 245
            1
 259
        29
            2
 273
       42
            3
               ********
 287
       41
            3
        34
            2
 301
       75
            5
 315
               *****
 329
       75
               *******
 343
       93
            6
               *******
 357
       180
          1.1
               *************
 371
       145
            9 . **********
 385
       147
 399
       97
               ******
            6
 413
       77
            5
               ******
       67
 427
            4
               ******
 441
        24
            1
               ****
 455
       31
            2
 469
        9
               黄黄
            1
 483
        6
            0
               sk sk
 497
        0
            0
 511
         0
            0
         0
 525
 539
         0
            0
 553
         0
            0
```

NO. OF SAMPLES OVER 560 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 1617
SAMPLE INTERVAL = 10 MINUTES

### HISTOGRAM OF DIRECTION

### HOWE SOUND HS-58 DEPTH 15M START DATE 05/01/73

```
MEDIAN
        FREGINCY
                           50
                                     100
                                               150
                                                          200
                                                                    250
(DEG.T) NO. PCT .
   -5
        146
   15
        205
             13
        155
   25
             1.0
                  ********
   35
        104
              6
                  ***********
   45
         62
  55
         42
              3
                 *****
   65
         21
              1
  75
         19
  85
         17
  95
         14
              1
         15
  105
              1
 115
         14
         8
 125
 135
         12
                 **
 145
         16
              1
                 ***
 155
         9
         20
 165
 175
         24
              1
         35
 185
              2
 195
         56
                 *****
 205
         63
 215
         31
              5
 225
         30
              2
 235
         31
              2
 245
         18
              1
 255
         36
              2
 265
         29
              2
 275
         33
              2
 285
         31
              2
 295
         29
 305
         24
 315
         48
              3
                 *****
 325
         39
 335
         47
              3
 345
         45
              3
 355
         89
                 *****
 365
         0
              0
 375
         0
              0
 385
         0
              0
 395
         0
              0
```

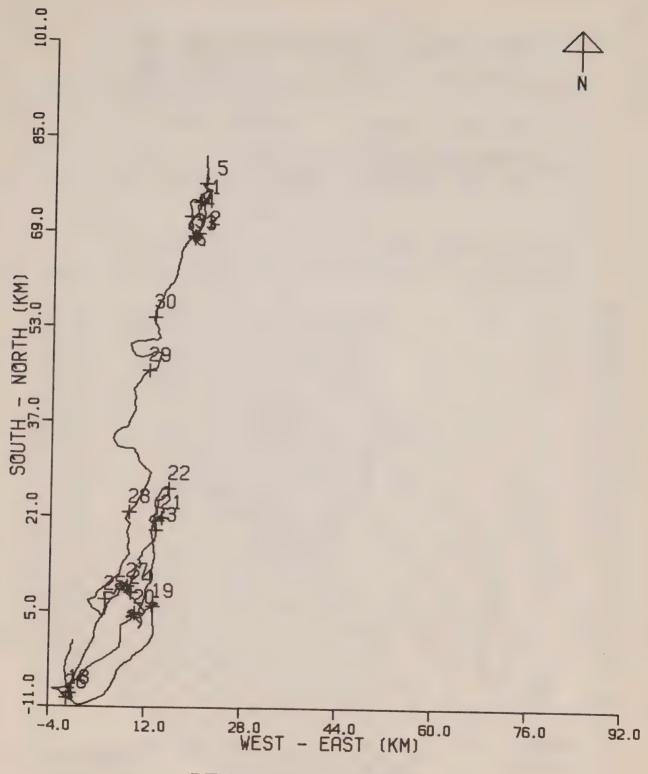
NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 1617
SAMPLE INTERVAL = 10 MINUTES

### HISTOGRAM OF TEMPERATURE

#### HOWE SOUND HS=5S DEPTH 15M START DATE 05/01/73

```
MEDTAN
     FREGINCY
                   30
                                  90
                           60
                                         120
                                                 150
(DEG.C) NO. PCT .
                   8
                                          .
5,33
      0
          0
5.39
       0
          0
5,45
      56
          2
5.51
      56
          5
            *****
5.57
      15
            ****
          1
5,63
      20
          1
            *****
5,69
      11
            ***
          1
5.75
       4
          0
5.81
       3
          0
5.87
       0
          0
5,93
       2
          0
5,99
       1
          0
6,05
       2
          0
            - 46
6.11
      3
          0
      45
6,17
          3
            ******
6.23
      73
          5
            **********
6.29
      74
          5
            ********
6,35
      47
          3
            ******
6.41
      46
          3
            ********
6.47
      73
          5
            ********
6.53
      - 4
          0
6.59
      23
          1
            ***
6.65
      13
          1
            ****
6,71
      28
          2
            *******
6.77
      27
          2
            *****
6.83
      73
          5
            *******
6.89
     107
          7
            *********
6,95
      85
          5
            *********
7.01
     127
          8
            **********
7.07
            *********
     125
          8
            *********
7.13
     123
          8
7.19
     119
          7
            **********
7,25
     125
          8
            ************
7.31
     48
          3
            *********
7.37
      67
          4
            **********
7.43
      22
          1
7.49
      25
          1
            ****
7,55
      8
          0
            ***
7.61
      0
          0
7,67
       0
          0
```

NO. OF SAMPLES OVER 7.70 = 0
NO. OF SAMPLES UNDER 5.30 = 0
TOTAL NO. OF OBSERVATIONS = 1617
SAMPLE INTERVAL = 10 MINUTES



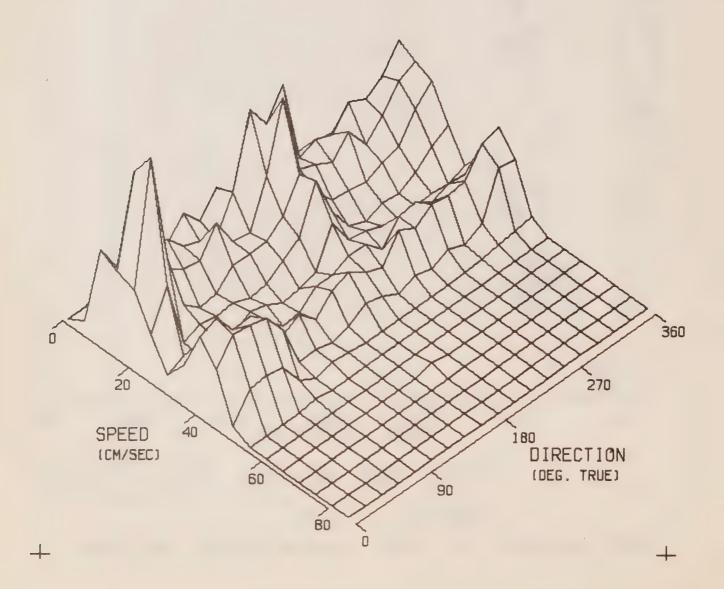
STN. NO. HS-5S DEPTH 15 M.

STARTING DATE: 17/ 1/73 ENDING DATE: 5/ 2/73

+

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5S DEPTH 15 M. STARTING DATE: 17/1/73 NO. OF SAMPLES = 2693



STN. NO. HS=58 DEPTH 15 M.

STARTING DATE: 17/ 1/73 SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

### SPEED

	08 41 97 35 15 74
0-14 005 059 061 027 024 028 004 2	41 97 35 15
	41 97 35 15
15= 29 006 049 081 024 027 044 010	97 35 15 74
	35 15 74
30- 44 005 072 050 002 019 039 010	15
45- 59 008 029 016 009 019 044 010	15
	74
* · · · · · · · · · · · · · · · · · · ·	72
	57
	46
	56
	07
	57
· · · · · · · · · · · · · · · · · · ·	78
	23
	37
	58
	32
	31
	35
	31
	38
	27
	15
243-33 000 033 USI UII UEE VAU OVE 1	7.3
244 560 331 54 1 0 26	13
847 243 412 1 0 0	

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 0

HISTOGRAM OF SPEED

### HOWE SOUND HS-58 DEPTH 15M. START DATE 17/01/73

MEDTAN	FRERIN	CY		50	100	150		200	250
(MM/S)	NO. PC	Τ,							
7	0	0			-			•	
21	2	0							
35	18	1	****						
49	69	3	*****	*****					
63	104	4	*****	*****	***				
77	9.5	3	*****	******	*				
91	155	6	*****	******	*****	*****			
105		5	*****	******	****	*****			
119	*	7	*****	*****	*****	******	****		
133		4	*****	*****	****				
147	176	7	*****	*****	****	*****	**		
161	4 1	4	*****	*****	***				
175	, ,	4		*****					
189	6 001 1	5	*****	*****	****	*			
203		3		*****					
217	2 - 400	4		*****	****				
231		2	*****						
245		5	*****						
259		2	****	****					
273		1	****						
287		1	****						
301		1	****						
315		2	*****						
329 343		1	****						
357		2	****						
371		3 გ.	****						
385		ر. ح	*****						
399		3	*****						
413		3		*****					
427		.3 4		******	****				
441		3	*****						
455		7	*****						
469	-	1	****						
483		1	*****						
497		1	****						
511		0	**						
525	2	0							
539	0	0							
553	0	0							

NO. OF SAMPLES OVER 560 = 2
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2693
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-58 DEPTH 15M. START DATE 17/01/73

```
FREDINCY
MEDIAN
                 40
                        8.0
                              120
                                    160
                                            200
(DEG.T) NO. PCT
  5
     128
         5
  15
           *********
     184
  25
     152
          ***********
 35
     131
          **********
 45
     108
           *******
 55
     90
          **********
 65
     74
          ******
 75
      63
 85
      46
         2
           *****
 95
      36
           *****
 105
     47
           *****
 115
     54
           *****
 125
     46
           ******
 135
     26
 145
     37
         1
           *****
 155
     45
 165
     61
           *****
 175
     72
         3
           ******
 185
     98
           ******
 195
     127
         5
           *********
 205
     111
 215
     90
           ******
225
     62
         2
           *******
235
     51
         2
245
     52
         2
           ********
255
     46
           *****
245
     52.
275
     51
           ******
285
     59
         2
           *********
295
     57
           *******
305
     44
           ******
315
     66
           ******
325
     62
           *********
335
     84
         3
345
    101
           *******
355
     8.0
         3
           *******
365
      0
375
      0
385
      0
        0
395
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2693
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

## HOWE SOUND HS-58 DEPTH 15M. START DATE 17/01/73

HEDIAN	FREG	RINCY	60	120	180	240	300
(DEG.C)	NO.	PCT .				•	•
4,94	0	0					
5,02	0	Ô					
5,10	0	0					
5,18	0	0					
5,26	0	0					
5,34	0	0					
5.42	0	0.					
5,50	1	0					
5,58	3	0	W				
5,66	1.1	0	**				
5.74	51	2	****				
5,82	74	3	******				
5.90	56	2	****				
5,98	52	2	*****				
6,06	55	5	*****				
6.14	87	3	*****				
6.22	66	2	*****				
6.30	69	3	*****				
6,38	138	5	*****	*****			
6,46	119	4	*****	****			
6,54	79	3	*****				
6.62	105	4	*****	***			
6,70	112	4	******				
6,78	129	5	****	*****			
6,86	170	6	****	******	***		
6,94	185	7	******	******	****		
7,02	223	8.		******	*****	W St	
7,10	77	3	*****				
7.18	92	3	****				
7,26	36	1	****				
7.34	46	2	****				
7,42	43	2	****				
7.50	29	1	***				
7,58	34	1	****				
7.66	41	2	****				
7,74	57	2	****				
7.82	52	2	****				
7,90	278	10	*****	*****	****	****	***
7,98	97	4	*****	*			
8.06	56	1	***				

NO, OF SAMPLES OVER 8.10 = 0
NO. OF SAMPLES UNDER 4.90 = 0
TOTAL NO. OF OBSERVATIONS = 2693
SAMPLE INTERVAL = 10 MINUTES

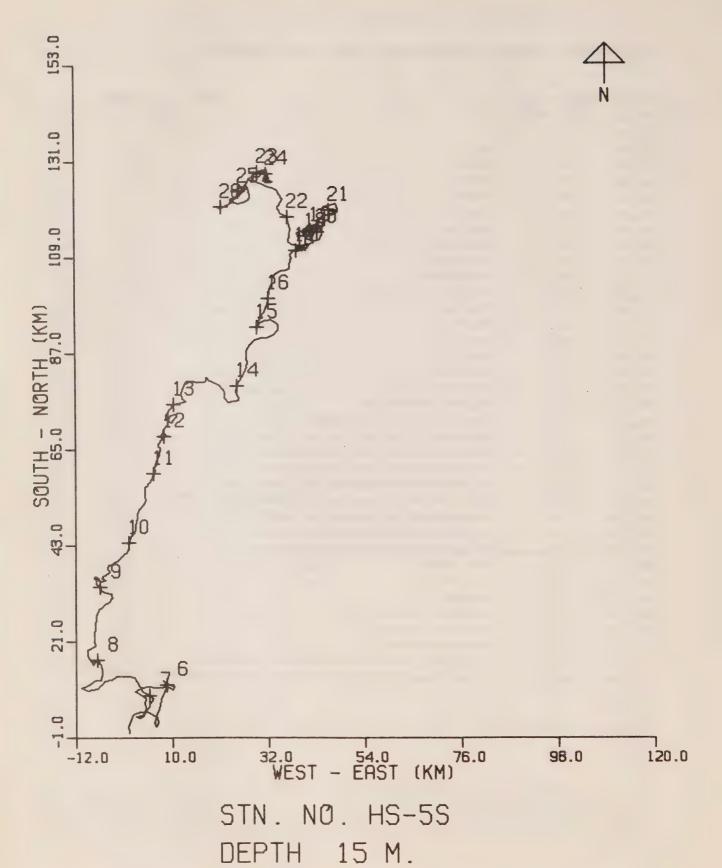
300

## HISTOGRAM OF SALINITY

## HOWE SOUND HS-58 DEPTH 15M. START DATE 17/01/73

```
MEDIAN
      FREGINCY
                     60
                             120
                                     180
                                             240
      NO. PCT .
(PPT)
26.06
       - 1
           Ö
26,18
       14
           1
26.30
       30
              ***
26.42
       29
26.54
       25
26,66
       28
           1
26.78
       85
           1
              ****
26.90
       38
           1
              ****
27.02
       51
           2
              *****
27,14
       45
27.26
       32
              ****
27,38
       39
           1
              *****
27.50
       36
27,62
       20
              ***
27.74
       15
           1
              ***
27.86
       36
              ****
27,98
       64
           2
              *******
28.10
       86
              ******
28,22
      113
             ******
28.34
       85
           3
              ******
28.46
      117
              *********
28,58
      146
           5
              *********
28,70
      180
           7
              ********
28,82
      805
             **********
28,94
             *********
      174
           6
29,06
      116
              ************
29,18
      155
           6
              *********
29,30
      40
              *****
29,42
       38
           1
              ****
29.54
       30
              ****
           1
29,66
       65
           2
              *******
29.78
       92
           3
              ********
29,90
       63
          2
              ******
30.02
      173
             ********
           6
30.14
             ***********
      265
          1.0
30,26
       16
          - 1
              **
30.38
       0
           0
30,50
        0
           0
30,62
        0
           0
30.74
```

NO. OF SAMPLES OVER 30.80 = 0 NO. OF SAMPLES UNDER 26.00 = 0 TOTAL NO. OF OBSERVATIONS = 2693 SAMPLE INTERVAL = 10 MINUTES

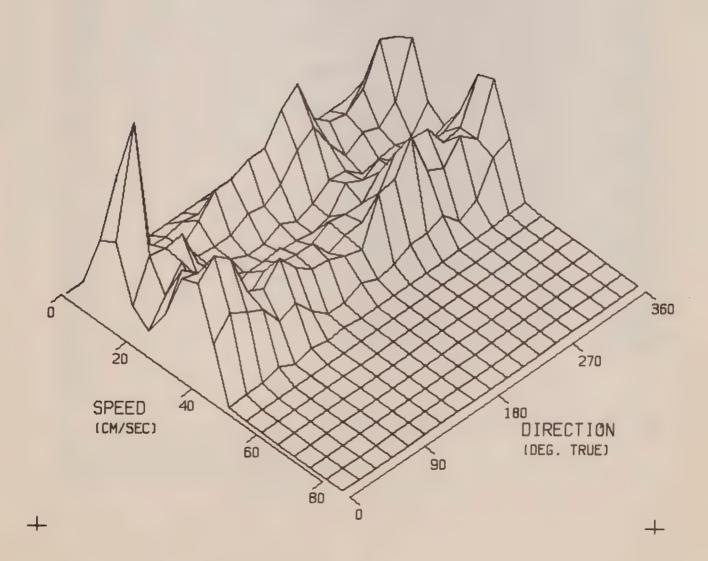


STARTING DATE: 5/ 2/73 ENDING DATE: 26/ 2/73

+

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5S DEPTH 15 M. STARTING DATE: 5/2/73 NO. OF SAMPLES = 3000



STN. NO. HS-53 DEPTH 15 M.

STARTING DATE: 5/ 2/73
SAMPLE INTERVAL = 10 MIN.

NO' OF SPEEDS EXCEEDING 960 MM/SEC =

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)
AND SPEED (MM/SEC).

### SPEED

	000	080 TO	160 TO	240 TO	320 TO	400 TO	480 TO	560 TO	640 TO	720 TO	800 TO	880 TO	
DIR	079	159	239	319	399		559	639	719	799	879	959	
DIR  0 = 14 15 = 29 30 = 44 45 = 59 60 = 74 75 = 89 90 = 104 105 = 119 120 = 134 135 = 149 150 = 164 165 = 179 180 = 194 195 = 209 210 = 224 225 = 239 240 = 254 255 = 269 270 = 284 285 = 299 300 = 314 315 = 329	079 007 011 023 011 003 005 004 007 004 008 008 007 004 011 010 009 004 003	058 095 088 021 011 019 006 012 015 018 024 025 028	239 036 051 036 037 031 018 009 002 003 007 010 005 010 005 011 005	319 027 042 032 026 034 016 018 010 014 015 007 010 011 011 013 020 019 019	399 051 057 042 036 026 026 027 021 014 016 026 042 059 044 030 031	479 049 045 035 044 028 021 015 008 004 006 011 009 015 021 017	559 001 002 002 001 002	639	719	799	879	959	229 303 258 177 142 93 102 77 78 70 62 75 96 127 143 146 103 112 97
330-344	014	034	003	017	034	022							124
345-359	010	043	012	050	039	039							163
	200		349		772		11		0		0		3000
		736		443		489		0		0		0	

## HISTOGRAM OF SPEED

## HOWE SOUND HS=58 DEPTH 15M. START DATE 05/02/73

```
MEDTAN
     FREGINCY
                50
                      100
                             150
                                   200
                                         250
(MM/S)
     NO. PCT
      0
         0
 21
      3
         Ō
 35
     11
         0
          **
 49
     47
 63
     67
          *****
 77
     121
          ******
 91
     171
          ************
 105
     138
          *******
 119
    143
          ********
 133
    103
        3
          *****
 147
    107
          *****
 161
     79
        3
          *****
 175
     70
          *****
 189
     89
          *****
203
     41
        1
          *****
217
     51
          *****
231
     44
245
     41
          ****
259
     74
          ******
273
     55
          ******
287
     96
          *****
301
     97
        3
          *****
315
    102
        3
          ******
329
     84
343
    121
          *******
357
    165
          **********
371
    133
          *********
385
    199
        7
          399
    126
          *********
413
    105
          ******
427
    124
          *******
441
     83
        3
455
    72
          *****
469
     25
          ****
483
     7
        0
497
     6
        0
511
     0
        0
525
     0
539
     0
553
```

NO. OF SAMPLES OVER 540 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES

### HISTOGRAM OF DIRECTION

## HOWE SOUND HS-53 DEPTH 15M. START DATE 05/02/73

```
200
                                             250
MEDIAN
     FREGINCY
                  50
                        100
                               150
(DEG.T) NO. PCT .
  5
     152
         5
           **********
           **********
  15
     188
           ************
  25
     209
  35
     174
           **********
         6
           *******
  45
     152
         5
  55
     103
         3
           ******
         3 ***********
  65
     101
  75
     64
         2
           *****
  85
      68
         2
           ******
 95
      60
         2
           *****
           *****
 105
      64
         2
      50
         2
 115
      54
         2
 125
           ******
 135
      51
         2
           ******
 145
      45
         2
      47
 155
         2
           ****
         2
 165
      46
           ******
 175
      40
         1
           *****
 185
      41
         1
           ****
      51
 195
         2
 205
      40
           ****
      64
         2
           *****
 215
      78
           ******
 225
         3
 235
      93
         3
           ******
 245
      98
         3
 255
      93
         3
           *****
 265
      90
         3
           ******
 275
      70
         2
           *****
 285
      68
         2
           *****
 295
      76
         3
      58
         5
 305
           ******
 315
      64
         2
           ******
      69
 325
         2
           *********
 335
      76
         3
           *********
 345
      96
         3
           ******
 355
     107
         4
           ******
      0
         0
 365
 375
      0
         0
 385
      0
         0
 395
      0
         0
```

NO, OF SAMPLES OVER 400 = 0
NO, OF SAMPLES UNDER 0 = 0
TOTAL NO, OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES

### HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-58 DEPTH 15M. START DATE 05/02/73

```
MEDTAN
      FREGINCY
                    60
                           120
                                           240
                                   180
                                                   300
(DEG.C)
      NO. PCT
                                    .
                                            .
6.42
       0
           n
6.46
       7
           Ô
6.50
       41
           1
6.54
      159
           5
6.58
      139
           5
             ******
6,62
      55
           2
6.66
      156
           5
             *******
6.70
      226
           8
             **********
      237
6.74
           8
6.78
      154
           5
             *******
6,82
      242
           8
             **********
6.86
      296
             **********
          10
6,90
      133
             ******
           4
6.94
      189
             *********
           6
6.98
      83
7.02
      165
7.06
      227
             *********
           8
7.10
      190
           6
             *******
7.14
      46
           2
7,18
      146
           5
             ********
7,22
      64
           2
             *****
7.26
       32
           1
7,30
       6
           0
7.34
       7
           0
7,38
       0
           0
7,42
       0
           0
7,46
       0
           0
7,50
       0
           0
7.54
       0
           0
7,58
       0
           0
7,62
       0
           0
7.66
       0
          0
7.70
       0
           0
7.74
       0
          0
7.78
       0
          0
7,82
       0
          0
7,86
       0
          0
7.90
       0
          0
7.94
       0
          0
7.98
       0
          0
```

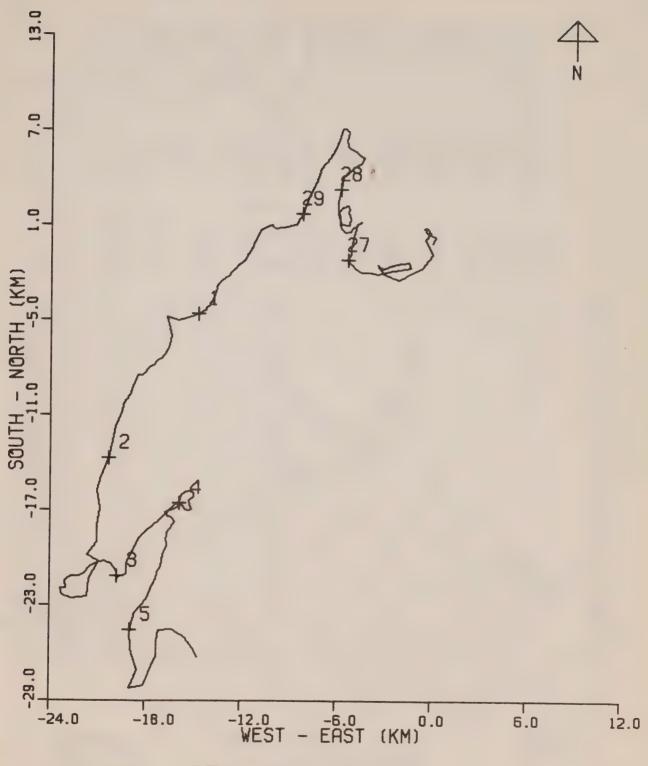
NO. OF SAMPLES OVER 8.00 = 0
NO. OF SAMPLES UNDER 6.40 = 0
TOTAL NO. OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES

### HISTOGRAM OF SALTNITY

### HOWE SOUND HS+55 DEPTH 15M. START DATE 05/02/73

```
MEDIAN
     FREGINCY
                40 .
                       80
                             120
                                   160
                                          200
     NO. PCT .
(PPT)
28,17
      0
         0
28,21
      0
         0
     5
28.25
         0
28.29
     50
         2
           ********
28,33
     11
        0
           ***
28.37
         2
     60
           ******
28.41
     44
         1
           *****
28,45
     28
         1
           *****
28.49
     77
         3
           ********
28,53
     64
         5
           *******
28.57
     104
         3
           ******
28,61
     35
           ****
         1
28,65
     139
         5
           **********
28,69
     93
         3
           ******
28.73
           *******
     107
         4
           *******
28.77
     83
         3
28,81
     94
           ********
         3
28,85
     82
         3
           *******
28.89
     83
         3
           *********
28,93
           ***********
     100
         3
28,97
     83
         3
           *******
29.01
     81
         3
           *******
           ********
29.05
    118
         4
29.09
    132
           ********
29,13
     92
         3
           ********
29,17
     86
         3
           *******
     70
29,21
         2.
           ******
29.25
           *******
     111
29,29
           *******
     104
         3
29.33
     83
         3
           **********
29.37
     96
         3
           *******
29.41
     110
         4
           *********
29,45
         5
    148
           ********
29.49
     165
           *********
         6
29,53
     66
           ******
29.57
     108
           ********
    47
29.61
         2
           ******
29,65
     17
           ***
29.69
     8
         0
           **
29.73
     16
         1
          ***
```

NO. OF SAMPLES OVER 29.75 = 0
NO. OF SAMPLES UNDER 28.15 = 0
TOTAL NO. OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES



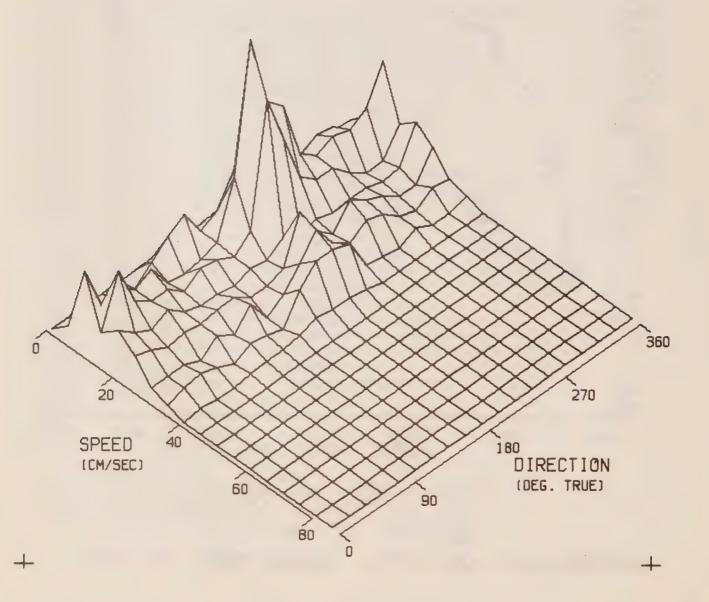
STN. NO. HS-5S DEPTH 15 M.

STARTING DATE: 26/ 2/73 ENDING DATE: 5/ 3/73

FREQUENCY DISTRIBUTION OF

CURRENT SPEED & DIRECTION

STN. NO. HS-5S DEPTH 15 M. STARTING DATE: 26/2/73 NO. OF SAMPLES = 1218



STN' NO. HS=58 DEPTH 15 M.

STARTING DATE:26/ 2/73 SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

### SPEFD

	000	080	160	240	320	400	480	560	640	720	800	880	
	TO												
DIR	079	159	239	319	399	479	559	639	719	799		959	
								-				* 48* *	
0-14	004	034	018	004	003								63
15- 29		027	010	008	003								48
30= 44	004	055	012	006	003								47
45= 59	001	012	009	006	004								32
60- 74	005	018	010	005	001								33
75- 89	005	013	007	011	001								34
90-104	004	004	006	004	003								21
105-119	007	010	007	005	003								32
120-134	016	005	003	011	001								36
135-149	010	007	005	002	500								56
150-164	006	007	004	003	010								30
165-179	004	010	007	005	012	001							39
180-194	012	046	010	150	014								103
195-209	020	076	021	023	014								154
210-224	024	049	017	008	014								112
225-239	026	052	008	800	006								100
240-254	013	056	006	011									56
255=269	003	019	004	020	001								47
270-284	007	018	007	012									44
285=299	004	013	005	009	003								34
300=314	011	014	002	003	001								31
315=329	010	010	004	003									27
330-344	005	009	005	005									24
345=359	003	023	011	007	001								45
	198		198		100		0		0		0		1218
		524		197		1		0		0		0	

NO' OF SPEEDS EXCEEDING 960 MM/SEC = 0

HISTOGRAM OF SPEED

## HOWE SOUND HS-55 DEPTH 15M. START DATE 26/02/73

```
FREGINCY
                    30 60
MEDTAN
                                       120
                                    90
                                                   150
     NO. PCT .
(MM/S)
  5
      0
           0
  15
       0
           0
  25
       0
           0
  35
      5
           0
  45
      10
           1
  55
      55
           5
             *******
  65
       59
           5
             ******
  75
       72
           6
             ********
  85
      105
             *********
  95
      59
          5
 105
      69
       57
 115
           5
             *****
       85
 125
             ********
           7
 135
       66
             ******
 145
       53
 155
       30
           2
             *****
      32
 165
           3
             ******
 175
       25
           2
 185
      19
 195
      31
           3
             ******
 205
       22
             *****
 215
       20
           2
       20
 225
           2
 235
      37
          3
       21
 245
           2
             *****
 255
       22
             *****
       29
 265
           2
             ******
      22
 275
          2.
       25
 285
          2
 295
      21
            *****
 305
       27
             *****
       22
 315
          2
             *****
       7
 325
             **
          1
 335
       25
      19
 345
            ****
 355
      19
          2
             ****
      8
 365
          1
 375
       16
          1
             ****
 385
       3
          0
 395
       3
          0
```

NO. OF SAMPLES OVER 400 = 1
NO. OF SAMPLES UNDER, 0 = 0
TOTAL NO. OF OBSERVATIONS = 1218
SAMPLE INTERVAL = 10 MINUTES

### HISTOGRAM OF DIRECTION

## HOWE SOUND HS=58 DEPTH 15M. START DATE 26/02/73

```
FREGINCY
MEDTAN
                      30
                              60
                                       90
                                               120
                                                       150
(DEG.T) NO. PCT
                                               .
   5
       43
              ********
  15
       45
              ********
  25
       27
              *****
  35
       31
           3
             *****
  45
       23
           2 ******
  55
       24
  65
       21
  75
       16
  85
       28
             ******
  95
       12
           1
 105
       21
           2
             ****
 115
       23
           2 *******
 125
       24
           2 *******
 135
       16
           1
 145
       20
           ******
 155
       20
           2
             ****
 165
       23
           2
             ****
 175
       32
           3
 185
       51
           4 **********
 195
      103
             *********
           8
 205
           9 ***********
      107
 215
       77
             *******
           6
 225
       67
 235
       61
           5
             *******
 245
       41
           3
             ********
 255
       28
           2
 265
       33
           3
             ******
 275
       27
           2
             ******
 285
       26
           2
             ******
 295
       23
           2
             *****
 305
       26
           2
 315
       21
             *****
 325
       10
           1
             **
 335
       14
           1
             ***
 345
       19
           2
             ***
 355
       35
           3
              *****
 365
        0
           0
 375
        0
           0
 385
        0
           0
 395
        0
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 1218
SAMPLE INTERVAL = 10 MINUTES

### HISTOGRAM OF TEMPERATURE

### HOWE SOUND HS-58 DEPTH 15M. START DATE 26/02/73

```
240
MEDIAN
        FREGINCY
                                      120
                                                 180
                                                                       300
                            60
(DEG.C) NO. PCT .
                            .
 6.61
          0
               0
          0
 6,63
               0
 6.65
          0
               0
 6.67
          0
               0
               5
 6.69
         21
                  ***
 6.71
         19
               2
 6.73
         98
              -8
 6.75
        227
              19
                  **********
 6,77
                  ******
        221
              18
 6,79
          0
              0
 6.81
        138
              11
 6.83
        85
              7
 6.85
        107
 6.87
         51
 6.89
               3
         32
 6,91
         31
               3
 6,93
          19
               2
                  女育会
 6.95
          9
               1
                  **
 6.97
          0
               0
 6.99
          12
               1
                  安女
 7,01
         24
               5
                  ***
 7,03
          17
                  **
               1
 7.05
          6
               0
          45
 7.07
 7.09
          44
               4
 7.11
          12
               1
 7.13
          0
               0
 7.15
           0
               0
 7,17
           0
               0
 7.19
           0
               0
 7,21
           0
               0
 7,23
           0
               0
 7.25
           0
               0
 7.27
           0
               0
 7,29
           0
               0
           0
 7,31
               0
 7.33
           0
               0
 7.35
           0
               0
 7,37
           0
               0
 7.39
           Ô
               0
```

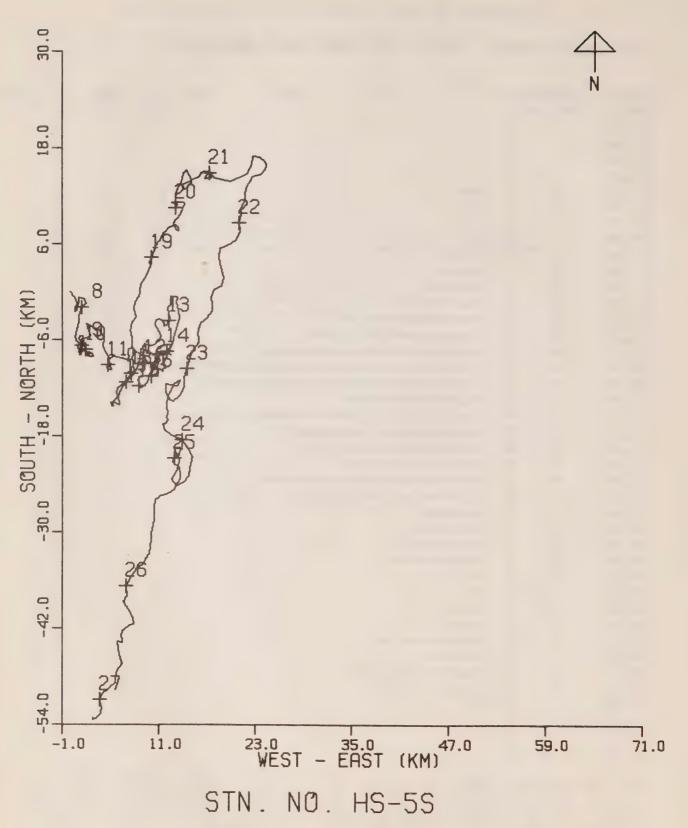
NO. OF SAMPLES OVER 7.40 = 0
NO. OF SAMPLES UNDER 6.60 = 0
TOTAL NO. OF OBSERVATIONS = 1218
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

## HOWE SOUND HS-55 DEPTH 15M. START DATE 26/02/73

```
MEDIAN
       FREGINCY
                       30
                                60
                                         90
                                                 120
                                                         150
(PPT)
       NO. PCT
27.43
         0
             0
27.49
         0
             0
27,55
         0
            0
27,61
         Ó
            0
27,67
        10
            1
               ***
27.73
        11
            1
               ***
27.79
         4
            0
27,85
        6
            0
               * *
27,91
        15
            1
               ****
27,97
        18
            1
               ****
28.03
        20
            2
               ****
28,09
        34
            3
28,15
        47
            4
               *****
28,21
        56
            5
               *******
28,27
        86
            7
               ********
28.33
       104
            9
               *********
28.39
        89
            7
               ********
28,45
        46
            4
               ******
28,51
       106
            Q
               ***********
28,57
        59
            5
               *******
28.63
        59
            5
               *******
28,69
        46
            4
28,75
        68
            6
               ********
28,81
        63
            5
               *********
28.87
        18
            1
28,93
        20
            2
               *****
28,99
        27
            5
               ****
29,05
        30
            5
               ******
29.11
        12
            1
               ***
29.17
        6
            0
               * *
29.23
        11
               ***
            1
29,29
               ****
        17
            1
29.35
        32
            3
               ******
29.41
        17
            1
29,47
        41
            3
               ******
29.53
        33
            3
               ******
29.59
        7
            1
29,65
        0
            0
29,71
        0
            0
29.77
        0
            0
```

NO. OF SAMPLES OVER 29.80 = 0 NO. OF SAMPLES UNDER 27.40 = 0 TOTAL NO. OF OBSERVATIONS = 1218 SAMPLE INTERVAL = 10 MINUTES



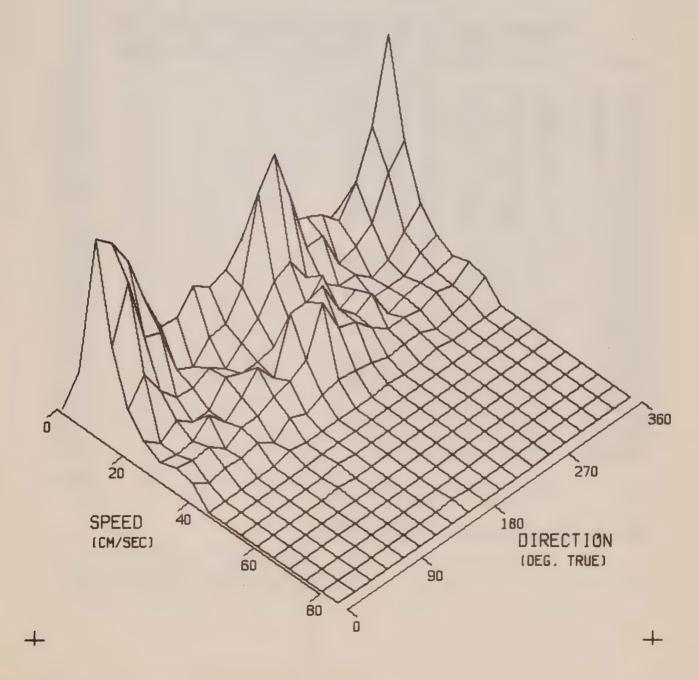
DEPTH 15 M.

STARTING DATE: 7/ 3/73 ENDING DATE: 27/ 3/73

+

## FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5S DEPTH 15 M. STARTING DATE: 7/ 3/73
NO. OF SAMPLES = 2875



STN. NO. HS-58 DEPTH 15 M.

STARTING DATE: 7/ 3/73 SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)
AND SPEED (MM/SEC).

### SPEED

	000	080	160	240	320	400	480	560	640	720	800	880	
	TO	TO	TO	TO	70	TO	TO	10	TO	799	879	70 959	
DIR	079	159	239	319	399	479	559	639	719	177	0/4	737	
	422	0.05	.74	408	413	001							159
0= 14	022	085	031	008	510	001							196
15= 29	023	111	045	007	009	001							163
30- 44	025	088	850	010		001							116
45= 59	008	069	020	010	008	001		•					85
60= 74	009	042	012	012	-								63
75= 89	007	032	011	004	005	004							65
90=104	007	027	013			001		003					96
105-119	013	034	013	025	007	005		002					
120=134	010	036	055	019	012	005							101
135-149	008	033	016	016	017					-01			90
150=164	008	044	024	027	014	0.0.0				001			118
165=179	018	061	034	036	039	004							192
180=194	012	065	065	043	032	003							217
195=209	007	093	059	038	023	002							555
210-224	008	086	039	041	920								200
225-239	017	044	029	016	011	001							118
240-254	004	047	012	050	010								93
255-269	006	043	011	017	007	200							86
270=284	006	058	010	005	005	005							56
285-299	004	017	0.07	003	008	004							43
300-314	009	023	005	003	004								44
315-329	015	042	006	006	***	-005							78
330-344	016	060	017	008	004								105
345=359	019	095	026	015	014								169
	281		552		305		0		0		0		2875
	,	1305		398		34		2		1		0	

NO' OF SPEEDS EXCEEDING 960 MM/SEC = 0

#### HISTOGRAM OF SPEED

## HOWE SOUND HS=58 DEPTH 15M. START DATE 07/03/73

```
280
                                                    350
                                    210
                     70
                            140
MEDIAN
      FREGINCY
(MM/S)
      NO. PCT .
   6
        0
           0
  18
        3
           0
  30
       -8
           0
  42
      58
           1
  54
      66
      121
             ******
  66
      111
             ******
  78
             *******
  90
      187
             *******
 102
      264
             *******
      212
           7
 114
             *********
 126
      214
 138
      171
             ******
 150
      153
           5
           4 *********
      127
 162
 174
      116
       94
 186
           3
           3 *******
 198
       84
 210
       65
       70
              *****
 255
       64
  234
           2
       38
           1
  246
       47
  258
           2 ******
       51
           2 *****
  270
              *****
  282
       76
           3
  294
       65
           2
       59
           2
  306
       68
           2 *******
  318
           2 ********
       68
  330
       47
           2 ******
  342
  354
       55
           2 *******
       51
           2
  366
       32
  378
  390
       23
           1
  402
       13
           0
              黄黄
           0
  414
       10
       8
           0
  426
        3
           0
  438
  450
        0
           0
        0
            0
  462
        0
           0
  474
```

NO. OF SAMPLES OVER 480 = 3 NO. OF SAMPLES UNDER 0 = 0 TOTAL NO. OF OBSERVATIONS = 2875 SAMPLE INTERVAL = 10 MINUTES

### HISTOGRAM OF DIRECTION

## HOWE SOUND HS-58 DEPTH 15M, START DATE 07/03/73

```
MEDIAN
    FREGINCY
                40
                      80
                            120
                                  160
                                         200
(DEG.T) NO. PCT
  5
    122
          *********
 15
     111
          ********
 25
    136
        5
          ************
 35
    113
          ********
 45
     81
        3
          ********
 55
     79
          *******
        3
     57
 65
        2
          ****
 75
     41
        1
          *****
 85
     45
        2
          *****
 95
     43
        1
          *******
     62
 105
        2
          *******
 115
     64
        2
          ******
 125
     71
        5
          ******
 135
     67
        2
          *******
 145
     48
        2
          *****
 155
     77
        3
          *******
 165
    108
          *******
 175
    134
        5
          ***********
185
    142
          ********
        5
195
    144
          ********
        5
205
    150
        5
          ****************
215
    141
        5
          **********
225
     97
        3
          *********
235
     77
        3
          ******
245
     51
        2
          *****
255
     68
        2
          ******
265
     56
        2
          ****
275
     38
        1
          ******
285
     33
        -1
295
     26
        1
          ****
305
     31
        -1
          *****
315
     38
        1
          *****
325
     55
        2
          ******
335
    68
        2
          ******
345
    87
        3
          ******
        4
355
   114
          **********
365
     0
        0
375
     0
        0
385
     0
        0
395
     0
        0
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2875
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-58 DEPTH 15M. START DATE 07/03/73

```
MEDIAN
       FREGINCY
                        90
                                180
                                         270
                                                   360
                                                            450
(DEG.C) NO. PCT
                                          .
6.61
         0
             0
6,63
         0
             0
6.65
         0
             0
6.67
         0
             0
6.69
         0
             0
6.71
         0
             0
6.73
             0
6.75
             0
6.77
         8
             0
6.79
         0
             0
6.81
        71
             2
6,83
       175
             6
               ******
6.85
       164
               ******
6.87
            Q
               ********
       267
6.89
               **********
       399
            14
6,91
       409
            14
               ********
6.93
       176
            6
6.95
       174
            6
               **********
6.97
         0
            0
6.99
       182
            6
7.01
            7
       204
               ********
7.03
       132
            5
7,05
       124
            4
               ******
7.07
       122
            4
               ******
7.09
       144
            5
7.11
        89
            3
               ******
7,13
        0
            0
7.15
        16
            1
               * *
7.17
        18
            1
7,19
         0
            0
7.21
         0
            0
7,23
         0
            0
7.25
         0
            0
7,27
         0
            0
7.29
         0
            0
7.31
         0
            0
         0
            0
7,35
         0
            0
7.37
         0
            0
7.39
         0
            0
```

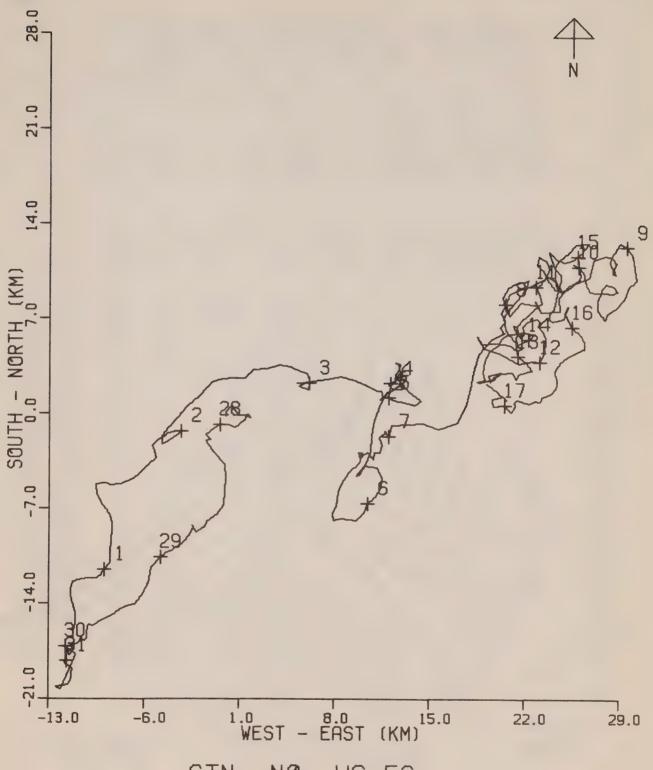
NO. OF SAMPLES OVER 7.40 = 0
NO. OF SAMPLES UNDER 6.60 = 0
TOTAL NO. OF OBSERVATIONS = 2875
SAMPLE INTERVAL = 10 MINUTES

### HISTOGRAM OF SALINITY

### HOWE SOUND HS-58 DEPTH 15M, START DATE 07/03/73

```
MEDIAN
      FREGINCY
                      70
                             140
                                      210
                                               280
                                                       350
      NO. PCT .
(PPT)
25,55
            0
        0
25,65
        0
            0
25.75
        0
            0
25,85
        1
            0
25,95
        1
            0
26.05
        9
            0
        5
26.15
            0
        9
26.25
            0
26,35
       17
           1
              * *
26,45
       13
            0
       12
26,55
              **
            0
26,65
       19
              * * 4
       12
26.75
            0
              * *
26,85
       1.1
            0
              * *
26,95
       15
           1
       22
27.05
           1
              **
27,15
       12
           0
              青黄
27.25
       11
            0
              金食
27,35
       13
            0
              **
27.45
       21
           1
27.55
       20
           1
              ***
       12
27,65
           0
27.75
       31
           1
              ***
27,85
       34
           1
              ***
27,95
       51
           2
28,05
       48
           2
28,15
      103
           4
              ******
           7
28.25
      187
              *******
28,35
      168
           6
              *********
28,45
      342
           12
              ***********
28,55
      275
           10
              *********
28.65
      171
           6
              *********
28,75
      255
           9
              *******
              **********
28.85
      256
           9
28,95
      133
           5
              ******
29,05
      128
              *****
29,15
           3
      82
29,25
      224
           8
              **********
29,35
      135
           5
              ********
29,45
      17
           1
```

NO. OF SAMPLES OVER 29.50 = 0 NO. OF SAMPLES UNDER 25.50 = 0 TOTAL NO. OF OBSERVATIONS = 2875 SAMPLE INTERVAL = 10 MINUTES



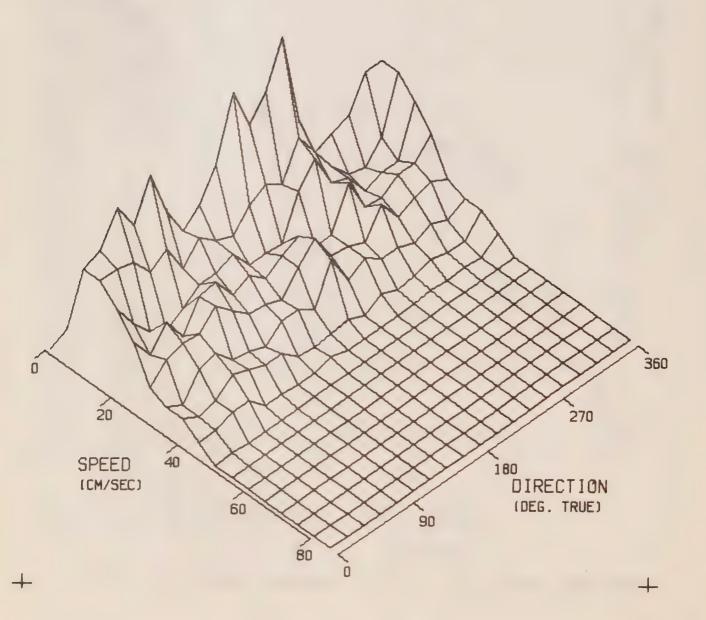
STN. NO. HS-5S DEPTH 15 M.

STARTING DATE: 27/ 3/73 ENDING DATE: 17/ 4/73

FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5S DEPTH 15 M.

STARTING DATE: 27/ 3/73 NO. OF SAMPLES = 3000



STN. NO. HS=58 DEPTH 15 M.

STARTING DATE: 27/ 3/73 SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

### SPEFD

	000	080	160	240	320	400	480	560	640	720	800	880	
	TO	TO	TO	10	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
0-14	011	060	046	029	012	008							166
15- 29	017	055	023	025	009	007	001						137
30= 44	006	069	033	025	015	008							156
45= 59	007	051	021	026	019	013							137
60 = 74	011	056	020	025	016	013							141
75= 89	009	072	024	029	013	006							153
90-104	008	047	029	032	011	005							132
105-119	007	041	055	020	012								102
120-134	007	032	032	015	011	002							99
135-149	012	042	035	055	007								118
150-164	014	048	024	022	010	002							120
165-179	015	049	017	015	008	001							105
180-194	015	061	055	033	014								145
195-209	016	068	022	030	016	003							155
210-224	011	060	028	150	009	~ (x .)							129
225-239	006	080	042	050	010	002							160
240-254	011	068	044	013	013	57 57 San							149
255-269	015	047	040	018	006								126
270-284	007	030	019	024	012								95
285-299	015	038	025	015	007	0.01							98
300-314	008	022	018	016	010	40.7							
315=329	006	031	050	050	009	0.01							74
330-344	006	044	019	026	005	001							87
345-359	013	045	030	015	009	003							101
	013	1/14/3	030	013	009	003							115
	253		652		263		1		0		0		2997
	1	216		536		76		0		0		0	

NO' OF SPEEDS EXCEEDING 960 MM/SEC = 3

HISTOGRAM OF SPEED

HOWE SOUND HS+5S DEPTH 15M. START DATE 27/03/73

```
240
                                                  320
                                                           400
       FREGINCY
                       80
                               160
MEDTAN
(MM/S)
      NO. PCT
   7
         2
  21
            0
  35
        - 6
            0
  119
       65
            2
              *****
  63
       103
            3
               ******
           F5
  77
       141
  91
       304
           1.0
               **********
 105
       219
            7
               *********
       282
 119
               ***********
      137
 135
               ******
      167
 147
       122
               *****
 161
            4
 175
      102
            3
               ******
 189
       117
               ********
 203
       100
            3
 217
      132
 231
       122
            4
               ********
      86
  245
            3
               ******
       9.8
  259
            3
 273
       85
            3
 287
      109
            4
 301
       87
            3
 315
        98
            3
               ******
        76
 329
            3
  343
        54
            2
               ****
  357
        46
            2
  371
        25
               ***
            1.
        29
  385
               ***
  399
       18
            1
               * *
        19
  413
               * *
  427
        25
               ***
        7
  4/11
            0
  455
            0
  469
            0
  483
         1
  497
         0
  541
         0
  525
 539
 553
```

NO. OF SAMPLES OVER 560 = 3
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-58 DEPTH 15M. START DATE 27/03/73

```
MEDITAN
    FREGINCY
             30
                   60
                        90
                            120
(DEG.T) NO. POT .
  5
    126
         ********
 15
    96
         ********
 25
    91
       3 **************
 35
    96
       3
         *********
 45
    109
         *********
 55
    89
       3
         *******
    92
 65
       3
         ********
 75
    93
       3
        ********
 85
    110
       4
         **********
 95
    49
         *********
 105
    72
         ********
115
    67
       2
         *********
 125
    75
         *******
135
    65
         ********
    83
145
       7
         *********
155
    68
        *******
    77
165
        *******
175
    75
       3
        ********
185
    109
        *********
       4
195
    86
        ********
       3
205
    112
        *********
       /1
215
    85
       3
        ********
225
    86
       3
        *********
235
    115
        ********
       /1
        **********
245
    105
       11
255
    8.1
        ********
265
    29
        ********
275
    61
        ******
285
    71
        *********
295
    54
        ******
305
    52
315
    58
        *******
325
    53
        ******
335
    74
       2
        **********
345
    62
        ******
355
    74
        ********
365
    0
       0
375
     0
       0
385
    ()
395
     0
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES OVER 0 = 0
TOTAL NO. OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES

### HISTOGRAM OF TEMPERATURE

## HOWE SOUND HS-58 DEPTH 15M. START DATE 27/03/73

MEDIAN .	FREC	INCV		160	320	480	640	800
(DEG.C)				•	•	•		9
6.91	Ö	0	•	•	•	•	•	*
6.93	Ö	n						
6.95	0	0						
6.97	0	0						
6.99	0	Ô						
7.01	0	0						
7.03	0	0						
7.05	10	0	*					
7.07	15	1	a .					
7,09	105	4	*****	*				
7,11	141	5	*****	***				
7.13	0	0						
7,15	162	5	****	***				
7.17	361	12	*****	******	******			
7.19	672	55	****	******	*******	******	*****	*
7.21	310	1.0	*****	******	****			
7.23	148	5	*****	***				
7.25	118	4	****	*				
7.27	120	4	*****	**				
7,29	96	3	*****					
7.31	0	0						
7,33	111	4	****	*				
7.35	87	3	****					
7,37	136	5	****	***				
7,39	130	4	****	**				
7,41	8.1	3	****					
7,43	55	2	***					
7.45	41	1	***					
7 . 47	0	0						
7.49	40	1	***					
7.51	23	1	*					
7,53	1.1	0	W					
7.55	6	0						
7,57	6	0						
7,59	5	0						
7.61	6	0						
7.63	0	0						
7,65	0	0						
7.67	0	0						
7.69	0	()						

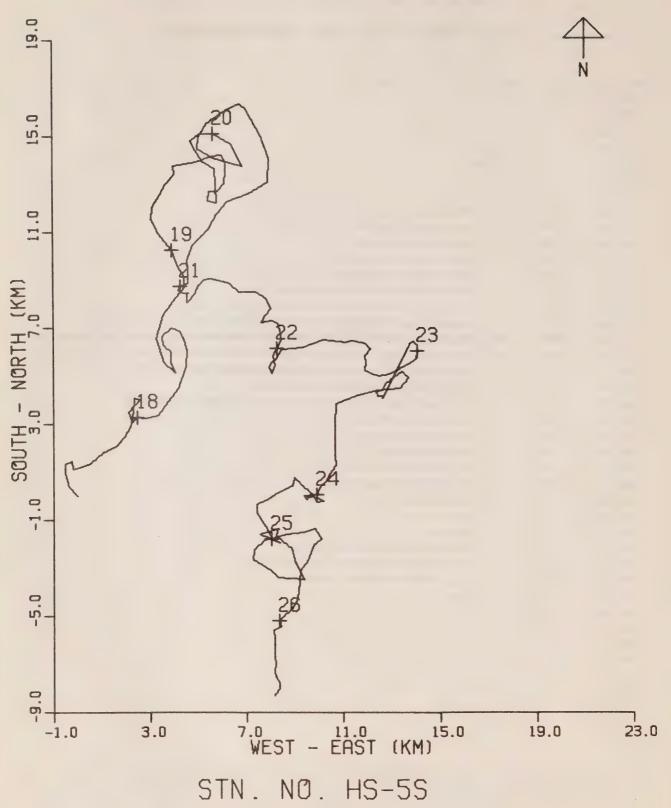
NO. OF SAMPLES OVER 7.70 = 6 NO. OF SAMPLES UNDER 6.90 = 0 TOTAL NO. OF OBSERVATIONS = 3000 SAMPLE INTERVAL = 10 MINHTES

### HISTOGRAM OF SALINITY

## HOWE SOUND HS-58 DEPTH 15M. START DATE 27/03/73

```
MEDIAN
     FREDINCY
                   60
                         120
                                180
                                       240
                                               300
(PPT)
     NO. PCT .
27.83
       0
          0
27.89
       0
          0
27.95
      3
          0 *
28.01
      8
          0
    55
9
28,07
      6
          () *
28,13
            ***
          1
28.19
     33
28.25
      75
          3
            *****
28,31
      75
          3
            ******
28,37
      91
           ******
28.43
     89
            *********
          3
28.49
     135
          5
            *******
28,55
     127
           *****
         7.1
28,61
            *********
     243
          8
28.67
     273
          Q
            **********
28.73
     280
          9
           *************
28.79
     217
            *********
          7
28,85
     137
            ********
28,91
     203
            *************
28.97
     69
29.03
     95
            ********
     57
29,09
            ******
          7
29.15
     94
           *********
29.21
    121
            *******
79.27
     85
          ፯
            ********
29.33
     42
          1
            ****
29,39
     32
          1
29.45
     113
           **********
29.51
     156
          5
           ********
29.57
     102
          3
           **********
29.63
     17
          1
29.69
      0
          0
29.75
      0
          0
29.81
      0
          0
29.87
29,93
      0
29.99
       0
          0
30.05
       0.
30,11
      0
          0
30.17
```

NO. OF SAMPLES OVER 30.20 = 0
NO. OF SAMPLES UNDER 27.80 = 0
TOTAL NO. OF OBSERVATIONS = 3000
SAMPLE INTERVAL = 10 MINUTES



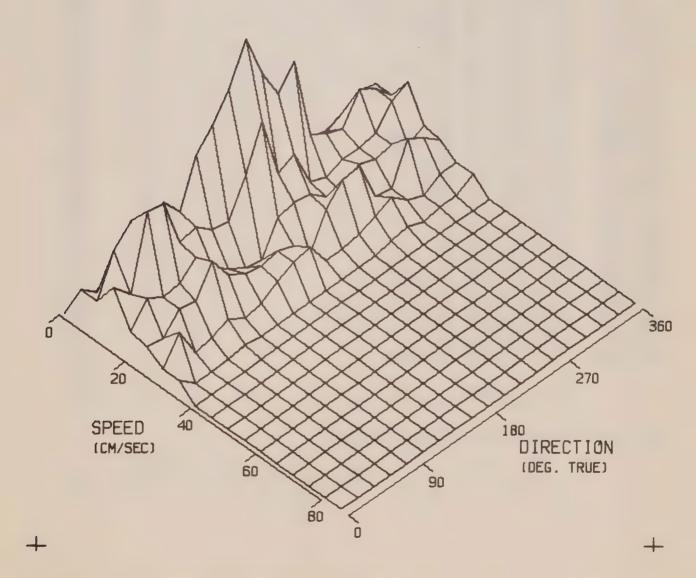
DEPTH 15 M.

STARTING DATE: 17/ 4/73 ENDING DATE: 26/ 4/73

+

## FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5S DEPTH 15 M. STARTING DATE: 17/4/73 NO. OF SAMPLES = 1331



STN. NO. HS=58 DEPTH 15 M.

STARTING DATE: 17/ 4/73
SAMPLE INTERVAL # 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG', TRUE) AND SPEED (MM/SEC).

### SPEFD

	000 TO	080 TO	160 TO	240 TO	320 TO	400 TO	480 TO	560 TO	640 TO	720 TO	800 TO	880 TO	
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
0 = 14	005	023	012	010									50
15- 29	008	021	015	008									52
30= 44	010	034	015	014									73
45- 59	002	033	017	003									55
60= 74	006	035	012	009									62
75- 89	008	025	024	013	001								71
90-104	007	025	014	011									57
105-119	009	025	008	007									49
120-134	006	030	007	008									51
135=149	010	040	005	006	001								62
150=164	010	041	003	011	001								66
165=179	012	058	011	011									92
180=194	012	056	017	005									90
195=209	006	035	011	002			,						54
210-224	006	037	016	007									66
225#239	005	031	007	011									54
240-254	005	028	006	014									50
255=269	004	016	008	011	002								41
270=284	006	011	009	007	001								34
285=299	004	007	015	006	001								33
300=314	007	010	008	003	001								29
315=329	006	055	008	010									46
330=344	009	024	011	006									50
345=359	010	007	007	011	005								40
													-+-0
	170		266		13		0		0		ð		1327
		674		204		0		0		0	-	0	, ,

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 4

### HISTOGRAM OF SPEED

HOWE SOUND HS-58 DEPTH 15M. START DATE 17/04/73

```
FREQINCY
MEDIAN
                        30
                                 60
                                           90
                                                   120
                                                             150
       NO. PCT .
(MM/S)
   5
         0
  15
         1
             0
  25
         1
             0
  35
        11
             1
  45
        9
             1
  55
        49
  65
        39
                *******
  75
        60
             5
                ***********
  85
       115
  95
        89
             7
                *******
 105
       116
             Q
        82
 115
 125
        93
             7
                *********
 135
        64
             5
        76
                ********
 145
             6
 155
        39
             3
        37
 165
             3
 175
        44
             3
        35
 185
             3
 195
        40
             3
               *******
 205
        25
             2
 215
        42
             3
        21
 225
             2
 235
        34
             3
               ******
 245
        24
            2
        35
 255
             3
               *******
 265
        44
             3
               *****
 275
        24
             2
               ****
 285
        3.1
             2
               ******
 295 "
        12
            1
 305
        16
            1
               ***
 315
         6
            0
               * *
 325
         6
            0
               * *
 335
            0
         1
         3
 345
            0
         5
 355
            ()
 365
         1
            0
 375
         0
            0
 385
            0
 395
```

NO. OF SAMPLES OVER 400 = 4 NO. OF SAMPLES UNDER 0 = 0 TOTAL NO. OF OBSERVATIONS = 1331 SAMPLE INTERVAL = 10 MINUTES

### HISTOGRAM OF DIRECTION

HOWE SOUND HS=58 DEPTH 15M, START DATE 17/04/73

```
MEDIAN
     FREGINCY
                 20
                        40
                               60
                                      80
                                            100
(DEG.T) NO. PCT
     38
  5
           *******
  15
      30
         2
           ******
 25
      40
         3
           *******
  35
      48
           *********
         4
 45
      42
         3
           *********
 55
      37
         3
           *********
 65
     44
         3
           **********
      44
           *******
 75
         3
 85
      45
           **********
         3
      39
 95
         3
           *******
      29
 105
         2
           ******
 115
      34
         3
           *********
         3
 125
      38
           ******
     37
 135
         3
           ***********
 145
     40
         3
           ***********
 155
     42
         3
           ******
 165
     57
         4
           ***********
 175
           *********
     66
        5
     59
 185
         4 **************
 195
     45
         3
           **********
 205
     37
         3
           **********
 215
     43
         3
           *********
     39
 225
         3
           ******
 235
     36
         3 ***********
 245
     40
         3
           *********
 255
     26
         5
           *****
     25
 265
         2
           ********
 275
     24
         2
           ******
 285
     25
         2
           *********
 295
     20
         2
           ******
 305
     18
        - 1
           *****
 315
     26
         2
           *****
 325
     34
        3
           ******
 335
     32
         2 ***********
 345
     30
         2
           *********
 355
     22
         2
           *******
     0
 365
         0
 375
      0
         0
 385
      ()
         0
 395
      0
```

NO. OF SAMPLES OVER 400 = 0 NO. OF SAMPLES UNDER 0 = 0 TOTAL NO. OF OBSERVATIONS = 1331 SAMPLE INTERVAL = 10 MINUTES

HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-58 DEPTH 15M. START DATE 17/04/73

```
MEDIAN
       FREGINCY
                         50
                                  100
                                            150
                                                      200
                                                                250
(DEG.C)
       NO. PCT
7.02
         0
             0
7.06
         0
             0
7,10
         0
             0
7.14
         -1
             0
7,18
       225
            17
                ***********
7.22
       245
            18
                ************
7.26
       124
             9
7.30
        42
             3
7.34
        58
             4
                *******
7.38
        80
7.42
        81
             6
                *******
7,46
        38
             3
                ******
7.50
        63
             5
                *****
7.54
        56
                ******
7.58
        48
             4
                *****
7.62
        95
             2
                ****
7,66
        12
7.70
        36
             3
7.74
        15
             1
7,78
        40
             3
                *****
7,82
        18
             1
7,86
        17
             1
7,90
        16
             1
7.94
        20
             2
7,98
        15
             1
                ***
8.02
        13
             1
8,06
        10
             1
                **
         5
8.10
             0
8.14
         2
             0
8,18
         1
             0
8,22
         5
             0
8,26
         1
             0
8.30
         1
             0
8.34
         6
             0
8,38
         6
             0
8,42
         3
             0
8.46
         1
             0
8.50
         1
             0
8.54
         0
             0
8.58
         0
             0
```

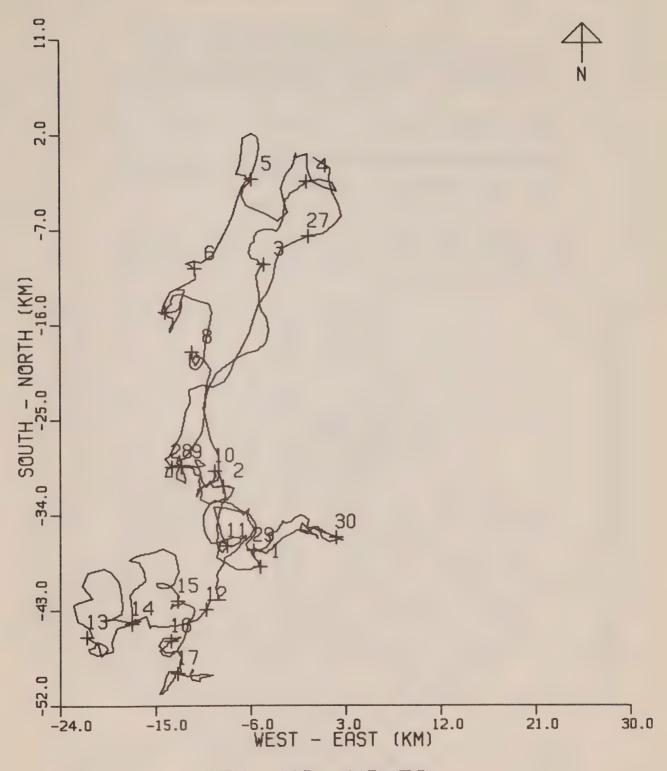
NO. OF SAMPLES OVER 8,60 = 0
NO. OF SAMPLES UNDER 7.00 = 0
TOTAL NO. OF OBSERVATIONS = 1331
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-58 DEPTH 15M, START DATE 17/04/73

```
MEDIAN
     FREGINCY
                  20
                          40
                                        80
                                               100
                                 60
(PPT)
     NO. PCT
27.72
          0
27.76
       1
            ×
          0
27.80
       5
          0
       5
27.84
          Ô
27.88
       5
            表出安
27,92
       8
            ***
          1
27,96
       8
          1
            ***
       8
28,00
          1
            ***
28.04
      25
          5
            ******
28,08
      25
            *****
28,12
      18
            ****
          1
28,16
      16
          1
            ****
58.50
      55
          2
            *******
28.24
      21
          2
            ******
28.28
      18
          1
            ******
28.32
      35
          3
            *******
28.36
      20
          2
            *****
28,40
      26
          2
            *******
28,44
      36
          3
            *******
28,48
      42
          3
            ********
28,52
            *******
      46
          3
28.56
      63
          5
            *******
      58
          4
28.60
            ********
      71
28.64
          5
            **********
28,68
      81
          6
            **********
28,72
      77
            ***********
28.76
      39
          3
            *********
28,80
      79
            ***********
28.84
     104
          8
            ***************
28,88
      45
          3
            *********
28,92
      58
            *********
28,96
      62
          5
            *********
59.00
      3
          0
29.04
      78
          6
            *********
29.08
      85
          5
            ********
29,12
      27
          2
            *****
29,16
      33
          2
            **********
29,20
      15
         1
            *****
29.24
      0
          0
29,28
       1
          0
```

NO. OF SAMPLES OVER 29.30 = 0 NO. OF SAMPLES UNDER 27.70 = 21 TOTAL NO. OF OBSERVATIONS = 1331 SAMPLE INTERVAL = 10 MINUTES

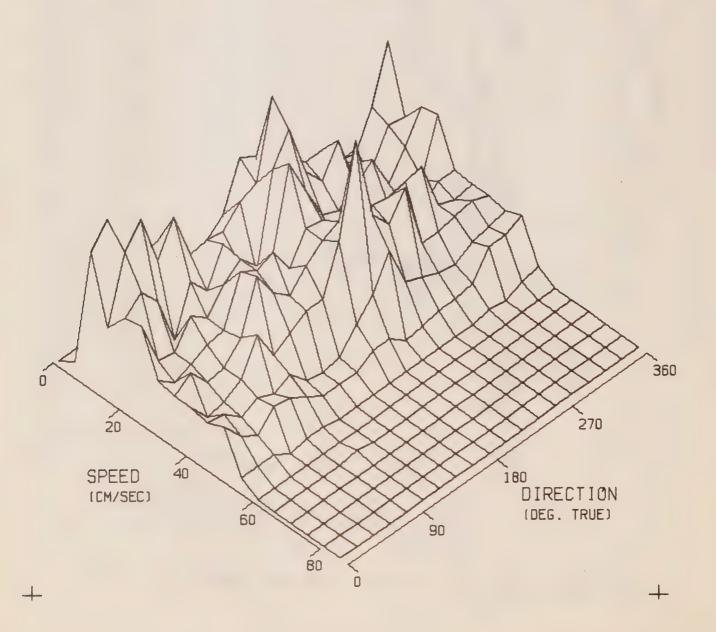


STN. NO. HS-5S DEPTH 15 M.

STARTING DATE: 26/ 4/73 ENDING DATE: 17/ 5/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5S DEPTH 15 M. STARTING DATE: 26/4/73 NO. OF SAMPLES = 2992



STN. NO. HS-58 DEPTH 15 M.

STARTING DATE:26/ 4/73 SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

## SPEED

	000	080		240	350	400	480	560	640	720	800	880	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	079	159	539	319	399	479	559	639	719	799			
0= 14	006	050	037	015	021	016	009						154
15= 29	003	058	021	015	016	010	008						131
30- 44		055	028	014	014	007	007						125
45= 59	002	034	021	019	009	009	008						102
60- 74		059	026	012	011	018	004						100
75= 89		045	025	020	024	014	005						133
90=104	002	030	018	026	026	012	006						120
105=119	001	055	031	037	025	006	002		001		•		125
120-134		150	055	027	022	009	500						103
135=149	003	025	023	035	021	006	003						116
150-164	005	030	014	022	028	011	001						111
165-179	005	030	037	036	035	012	002						157
180-194	001	052	042	039	032	026	005						197
195=209	002	049	051	038	042	036	003						221
210-224	004	025	039	018	028	034	500						150
225-239	002	015	031	028	026	023	003						128
240-254	003	018	025	026	031	022	001						126
255=269	001	025	038	017	034	015	001						131
270-284	001	021	018	017	850	010	003						98
285=299	001	016	020	014	150	010	005						87
300=314	004	016	013	012	023	010	005						83
315-329	002	018	010	010	018	015	009						85
330=344	500	850	017	017	021	014	008						107
345=359	500	024	017	024	013	014	010						
			041	0, 2, 4	12 10 m2	~ J ~ ~	0 I W						104
	52		624		569		112		1		0		2991
	- 440	736		538	-	359	of the Bur	0		0	0	0	2771
		, 34		3 18 17		and the		17		V		U	

NO'. OF SPEEDS EXCEEDING 960 MM/SEC = 1

#### HISTOGRAM OF SPEED

## HOWE SOUND HS-58 DEPTH 15M. START DATE 26/04/73

```
MEDIAN FREDINCY
                5.0
                     100
                           150
                                   200
                                         250
(MM/S)
    NO. PCT .
  7
     0
 21
     0
 35
     2 0
 49
    14
        0
          ***
     2.0
 63
        1
          ***
 77
     28
        1
 91
     113
        4
          ********
 105
    1.1.1
        4
          ********
 119
    102
        6
          *************
        4
 133
    129
          **********
        5
 147
    1/10
          ********
 161
     101
        3
          ******
 175
    100
        3
          *******
 189
     133
        4
          **********
 203
     112
        41
          *******
    130
 217
          *********
 231
     87
        3
          ******
 245
     8.0
        3
          *****
 259
    118
        4
          ********
 273
    83
        3
          *********
 287
    109
          ********
 301
     68
        2
          *****
 315
    107
        4
          *******
     87
 329
        3
          ********
 343
     100
        3
          ***********
 357
    116
          *******
 371
     98
        3
          *******
 385
    122
        4
          ********
 399
     76
        ζ
          ******
 413
     74
        2
          ******
    69
 427
        2
          ******
 441
     43
        1
          *****
 455
     53
        2
          *****
 469
     46
        2
          *****
 423
    48
        2
          *****
     40
 497
 511
     1.6
        1
          ***
 525
     20
        1
          ***
 539
     4
        0
 553
     1
```

NO. OF SAMPLES OVER 560 = 2

NO. OF SAMPLES UNDER 0 = 0

TOTAL NO. OF OBSERVATIONS = 2992

SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-58 DEPTH 15M. START DATE 26/04/73

```
MEDIAN
     FREDINCY
                 40
                        80
                              120
                                    160
                                           200
(DEG.T) NO. PCT .
  5
     112
           *********
  15
     84
         3
           *******
  25
      97
         3 *************
  35
      87
         3 ************
  45
      65
  55
      77
         3
           *****
  65
      61
           *********
 75
      81
         3
           *******
 85
      A A
         ጄ
          *******
 95
      78
         3
           *******
 105
      89
         3
           ********
 115
      77
         3
           **********
 125
     79
         3
           ***********
 135
     69
          *********
 145
      78
         3
           ************
 1:55
     71
           *******
 165
     82
         3
          *********
 175
     117
         4
           **********
 185
     129
          ********
 195
     130
          *********
         4
 205
     161
         5
           ***********
 215
     96
          ********
 225
     87
         3
           **************
 235
     85
         7
 245
     78
         3
          ******
 255
    103
           **********
 265
     77
          ************
     67
 275
         2
          *********
     53
 285
         >
 295
     64
         2
          *********
 305
     64
           **********
     43
 315
         1
 325
     57
          *********
         2
 335
     66
         2
           *****
 345
     73
         7
          *********
 355
     67
         2
           *****
 365
      0
 375
      0
 385
      0
 395
     0
```

NO. OF SAMPLES OVER 400 = 0 NO. OF SAMPLES UNDER 0 = 0 TOTAL NO. OF OBSERVATIONS = 2992 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

## HOWF SOUND HS-55 DEPTH 15M. START DATE 26/04/73

```
MEDIAN
       FREGINCY
                      100
                              200
                                       300
                                                400
                                                         500
(DEG.C) NO. PCT .
                      .
                               .
                                        .
7.07
       0
           0
7.11
        0
7.15
       15
           1
7,19
      486
           16
              ************
7.23
     132
          4
      289
7.27
          1.0
              **********
          2
7.31
      253
              ********
7.35
      234 . 8
              ********
7.39
       48
            2
7.43
       56
            2 · *****
7.47
      59
              ****
            2
7,51
       410
           - 1
7.55
       41
           1
7.59
       53
            2
7.63
       54
            7
7,67
      62
            7
              ****
7,71
       28
            1
7.75
       90
           3
7.79
      9 ()
            3
7,83
      167
              ******
           6
7.87
      146
            5
              *********
      50
7,91
            2
7,95
      107
           4
              *****
7,99
       70
           2
              ****
8.03
       72
              *****
8,07
      42
              ***
           -1
8.11
       94
            3
              *****
8.15
       55
8.19
       25
              ***
A.23
       24
           1
              **
8.27
      26
           1
              * * *
8.31
       20
              * *
           4
8.35
      17
           1
              * *
8.39
       6
           0
8,43
      1.0
             *
          0
8,47
       - 8
          0 *
A . St
       7
           ()
8,55
        1
           0
8,59
       2
           0
A. 63
```

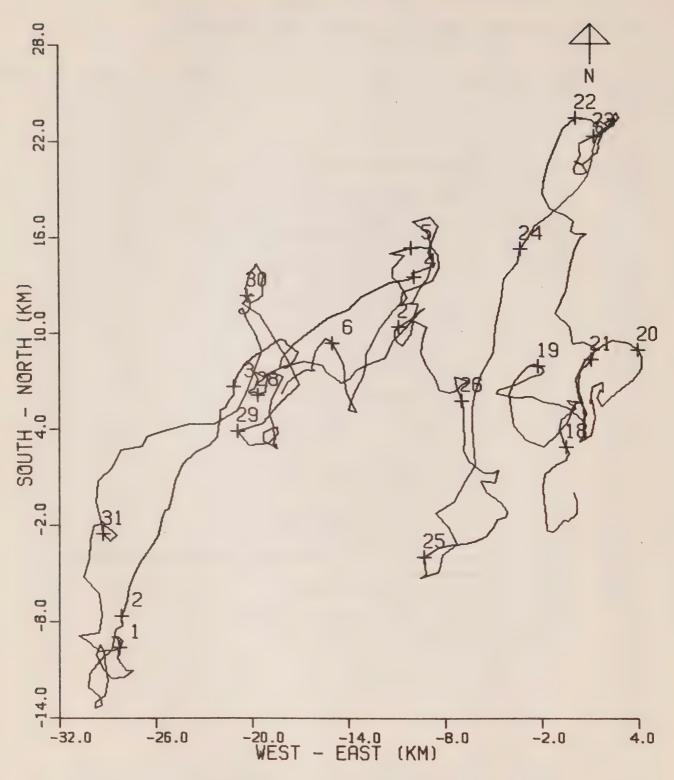
NO. OF SAMPLES OVER 8.65 = 0
NO. OF SAMPLES UNDER 7.05 = 0
TOTAL NO. OF ORSERVATIONS = 2997
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALTNITY

# HOWE SOUND HS-58 DEPTH 15M. START DATE 26/04/73

```
MEDTAN
      FREGINCY
                     60
                             120
                                     180
                                             240
                                                     300
(PPT)
      NO. PCT
27.83
27.89
        5
           0
27.95
       - Q
28,01
       19
28.07
       38
28.13
       75
           3
              ********
28.19
       89
              *******
           3
28.25
       84
           3
              *****
28.31
      142
           5
             *******
28.37
      150
           5
              *******
28.43
      149
           5
              ***********
28.49
      118
           /1
              *********
28.55
      151
           5
              **********
           3
28.61
      85
28.67
      100
              *********
28.73
       78
           3
              ********
28.79
       85
              ******
28.85
       39
           1
10.85
       92
           3
              *********
      56
28.97
              *****
29.03
       53
              ******
29.09
       34
           1
      73
29,15
           2
              *******
29.21
      100
              **********
29.27
      94
             ******
           3
29.33
      107
              *******
29.39
      127
29.45
      105
           4
              ******
29,51
      260
           9
              ***********
29.57
      74
           2
29.63
      121
              *********
      73
29.69
           2
              *******
29.75
      159
           5
              *********
29.81
      39
              *****
           1
29.87
        0
           0
29.93
        0
           0
29.99
        0
           0
30.05
        0
30.11
        0
           0
30.17
        0
```

NO. OF SAMPLES OVER 30.20 = 0
NO. OF SAMPLES UNDER 27.80 = 0
TOTAL NO. OF OBSERVATIONS = 2992
SAMPLE INTERVAL = 10 MINUTES



STN. NO. HS-5S

DEPTH 15 M.

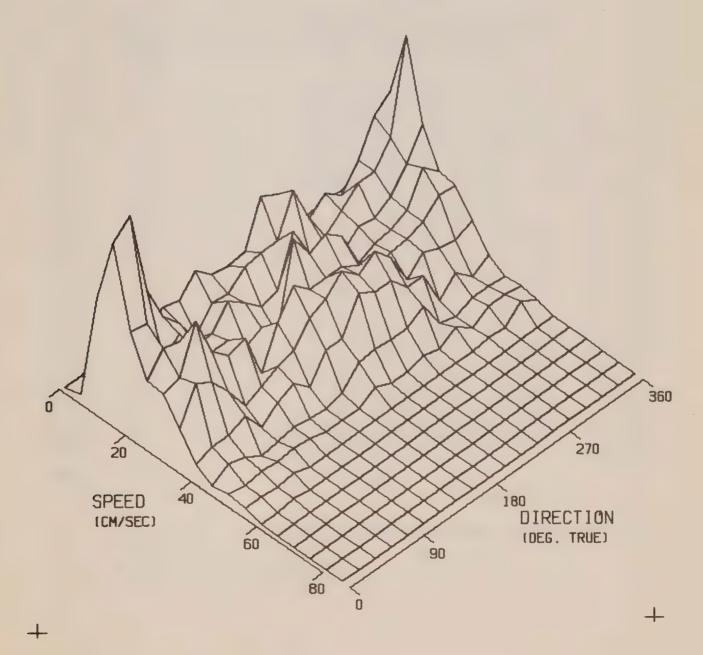
STARTING DATE: 17/ 5/73 ENDING DATE: 6/ 6/73

FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

+

STN. NO. HS-5S DEPTH 15 M. STARTING DATE: 17/ 5/73

NO. OF SAMPLES = 2890



STN. NO. HS-58 DEPTH 15 M.

STARTING DATE: 17/ 5/73
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE) AND SPEED (MM/SEC).

## SPEED

	000	080 TO	160 TO	TO	320 TO	TO							
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
0-14	001	073	057	026	025	006	004						192
15- 29	003	071	054	037	027	007	002						201
30= 44	004	054	033	031	028	006	003	001					160
45- 59	002	030	021	048	022	002	004						129
60= 74	004	028	029	034	011	001	002						109
75- 89	002	026	012	024	009	001	003						77
90-104	004	018	019	034	010	002	005						89
105-119		027	027	007	011	005							77
120-134	001	023	027	015	014	004							84
135-149	004	025	020	018	016	001							84
150=164	005	055	016	055	055	005							92
165-179	003	028	021	041	024	010	001						128
180=194	003	029	033	034	026	016	003						144
195-209	002	041	035	031	030	024	001						164
210=224	005	048	031	036	032	014							163
225=239	002	026	032	030	032	014	001						137
240-254	001	017	018	026	028	017	005						109
255-269	005	017	013	018	053	017	001						91
270-284	003	025	015	021	014	011	004						93
285=299	003	055	018	053	015	005	001						84
300-314	003	059		016	015	001							83
315=329	200	032		025	015	007	004						112
330-344	006	042	034	031	011	003	008						135
345=359	004	055	038	043	006	004	003						153
	66		655		463		49		0		0		2890
	0.0	805			403			1		0		0	

NO. OF SPEEDS EXCLEDING 960 MM/SEC = 0

# HISTOGRAM OF SPEED

HOWE SOUND HS-58 DEPTH 15M. START DATE 17/05/73

```
MEDIAN
      FREGINCY
                   50
                         100
                                 150
                                         200
                                                 250
(MM/S)
      NO. PCT
  7
      ()
          0
  21
      2
          0
     0
  35
         0
  49
      9
          0
 63
      29
           *****
          1
  77
      59
 91
     147
            **********
 105
     118
 119
     189
            *******
 133
     127
           ********
 147
     152
          5
            **********
 161
     128
        4 *************
 175
     120
           ********
 189
     124
            ********
 205
     99
          3
 217
     126
 231
     97
 245
     111
 259
     120
         EL
 273
     105
            *******
 287
     145
 301
     98
 315
     126
            *****
 329
     109
         4
 343
     98
         3
            ******
 357
     88
          3
            ******
 371
     57
 385
     67
399
     43
         1
413
     42
         1
427
     46
         2
441
      25
         1
455
     19
         1
469
     14
         ()
            ***
483
     1.1
         0
            * *
497
     14
         0
            **
511
      9
         0
            * *
525
      6
         0
539
      6
         ()
553
      6
         ()
```

NO. OF SAMPLES OVER 560 = 1
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2890
SAMPLE INTERVAL = 10 MINUTES

# HISTOGRAM OF DIRECTION

HOWE SOUND HS-59 DEPTH 15M, START DATE 17/05/73

```
120
                                   150
                        90
                   60
              30
MEDIAN FREGINCY
(DEG.T) NO. PCT
         **********
   139
  5
       4 ***********
 15
    121
         *************
   141
 25
       5
         ********
    111
 35
         *********
    97
 45
       3
         ********
       3
 55
    81
         *********
    72
       2
 65
    59
         ******
 75
       2
         ******
 85
    53
       5
         **********
       2
 95
    60
    50
         *********
       2
 105
         *******
    53
       2
 115
         ******
 125
    56
       2
         **********
    57
       2
 135
         *********
    55
       2
 145
    56
       5
         ********
 155
         *****
    8.2
       3
 165
         ********
 175
    88
       3
         **********
    89
       3
 185
         **********
    98
 195
       3
         ************
    124
 205
         ***********
    116
 215
         *********
    93
       3
 225
    87
         **********
       3
 235
         *******
 245
    78
       3
 255
    64
       2
         *******
    55
       5.
         *******
 265
         ******
    61
       2
 275
         *********
    62
       2
 285
 295
    57
       2
         ******
     55
       2
         ******
 305
    70
       2
 315
         ********
    69
       2
 325
         *********
 335
    89
       3
 345
    101
       3
         ***********
    91
       3
         ********
 355
 365
     0
       0
     0
       0
 375
 385
     0
       0
 395
     0
       0
```

NO. OF SAMPLES OVER 400 = 0
NO. OF SAMPLES UNDER 0 = 0
TOTAL NO. OF OBSERVATIONS = 2890
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

## HOWE SOUND HS-59 DEPTH 15M. START DATE 17/05/73

```
MEDIAN
      FREGINCY
                      80
                              160
                                      240
                                               320
                                                       400
(DEG.C) NO. PCT .
7.54
       12
           0
7,62
      105
           4
              *****
           13
7.70
      388
              *********
7.78
           9
       254
              *********
7.86
      324
           11
              *********
7.94
      280
           10
              *********
8.02
      338
           12
              *********
8,10
      281
           10
              *********
8,18
       145
           5
              ******
8.26
       79
           3
              *****
8.34
       37
            1
              ***
8.42
       32
            1
              女女女女
8,50
       23
           - 1
              ***
8.58
       30
              ***
            1
       5
8,66
            0
              Wi
8.74
       18
            1
              齿虫
8.82
       14
            0
              食食
8,90
       85
              大大大大
            1
8,98
       28
            1
       51
9,06
            2
              ***
9.14
       41
            1
9.22
       58
            2
              ****
9.30
       39
            1
              女女女女女
9.38
       38
            1
9.46
       14
            0
              *
9.54
       14
            0
              賣賣
9,62
        7
            0
9.70
        7
            0
9.78
       10
            0
       9
9.86
            0
              *
9,94
            1
              ***
       31
10.02
       23
            1
10,10
       17
            1
              **
       15
10,18
            1
              食食
10,26
       24
            1
              ***
              **
10.34
       14
            0
10,42
       12
            0
10,50
       10
            0
              W
10.58
        9
            0
              ×
            0
10,66
        6
```

NO. OF SAMPLES OVER 10.70 = 20 NO. OF SAMPLES UNDER 7.50 = 0 TOTAL NO. OF OBSERVATIONS = 2890 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

## HOWE SOUND HS=58 DEPTH 15M, START DATE 17/05/73

```
MEDIAN
                   50
      FREGINCY
                          100
                                  150
                                         200
                                                 250
(PPT)
      NO. PCT .
                                          8
26.34
       0
          0
26.42
       0
          0
26.50
       0
          0
26.58
       1
          0
26.66
       1
          0
          0
26.74
26.82
       1
          0
       2
26,90
          0
26,98
       4
          0
27.06
       4
          0
       5
27.14
          0
27.22
      23
          1
27,30
      55
          2
            *****
27.38
      51
          2
27,46
      77
          3
            *****
27.54
      61
            *******
27.62
      38
            *****
          1
27.70
      36
          1
            ****
27,78
      45
          2
27.86
      46
          2
            *****
27.94
      44
            *****
28,02
      34
            ****
28.10
      49
          2
            *****
28,18
      30
          1
28.26
      24
          1
            ***
28.34
      56
          2
            *****
28.42
      78
            *******
          3
            ******
28.50
      106
          4
28.58
      199
          7
            ***********
28.66
      195
          7
            **********
28.74
     212
          7
            **********
28,82
     211
          7
            ***********
28,90
            **************
     241
          8
28.98
     142
          5
            ********
29.06
     187
            ***********
          6
29.14
     233
            ***********
          8
29,22
     238
          8
            ****************
29.30
     105
          4
            *******
29,38
      48
          2
            ******
29.46
       7
          0
```

NO. OF SAMPLES OVER 29,50 = 0
NO. OF SAMPLES UNDER 26.30 = 0
TOTAL NO. OF OBSERVATIONS = 2890
SAMPLE INTERVAL = 10 MINUTES

